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JOSEPH HENRY,
Secretary S. I.

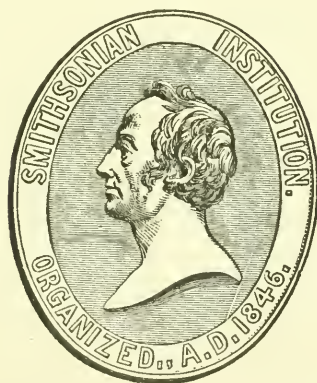


V O L. V.



SMITHSONIAN
MISCELLANEOUS COLLECTIONS.

VOL. V.



"EVERY MAN IS A VALUABLE MEMBER OF SOCIETY WHO BY HIS OBSERVATIONS, RESEARCHES,
AND EXPERIMENTS PROCURES KNOWLEDGE FOR MEN."—SMITHSON.

cat

WASHINGTON:
PUBLISHED BY THE SMITHSONIAN INSTITUTION.

1864.

PHILADELPHIA:
COLLINS. PRINTER.

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Authors. March, 1863. Pp. 658.

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TUTION. Corrected to June, 1862. June, 1862. Pp.
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1862. Pp. 56.

ADVERTISEMENT.

THE present series, entitled "Smithsonian Miscellaneous Collections," is intended to embrace all the publications issued directly by the Smithsonian Institution in octavo form; those in quarto constituting the "Smithsonian Contributions to Knowledge." The quarto series includes memoirs embracing the records of extended original investigations and researches resulting in what are believed to be new truths, and constituting positive additions to the sum of human knowledge. The octavo series is designed to contain reports on the present state of our knowledge of particular branches of science: instructions for collecting and digesting facts and materials for research: lists and synopses of species of the organic and inorganic world: museum catalogues: reports of explorations: aids to bibliographical investigations, etc., generally prepared at the express request of the Institution, and at its expense.

The position of a work in one or the other of the two series will sometimes depend upon whether the required illustrations can be presented more conveniently in the quarto or the octavo form.

In the Smithsonian Contributions to Knowledge, as well as in the present series, each article is separately paged and indexed, and the actual date of its publication is that given on its special title-page, and not that of the volume in which it is placed. In many cases, works have been published, and largely distributed, years before their combination into volumes.

While due care is taken on the part of the Smithsonian Institution to insure a proper standard of excellence in its publications, it will be readily understood that it cannot hold itself responsible for the facts and conclusions of the authors, as it is impossible in most cases to verify their statements.

JOSEPH HENRY,
Secretary S. I.

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SMITHSONIAN MISCELLANEOUS COLLECTIONS.

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY

PREVIOUS TO THE YEAR 1860.

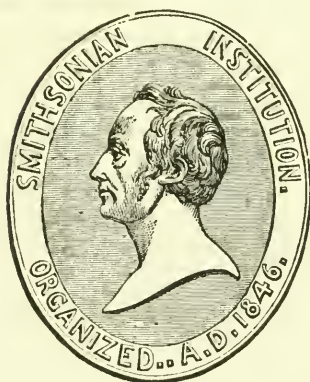
PREPARED FOR THE SMITHSONIAN INSTITUTION

BY

W. G. BINNEY.

PART I.

AMERICAN AUTHORS.



WASHINGTON:
SMITHSONIAN INSTITUTION.

MARCH, 1863.

ADVERTISEMENT.

THE Smithsonian Institution has endeavored to procure the compilation of a series of Manuals of North American Conchology, of which several are now in press, and others in an advanced stage of preparation. The present work, which has been compiled by Mr. Binney, serves as a companion to the above mentioned series, and presents at one view the complete bibliography of the references in the other volumes.

Of the two parts into which the plan of Mr. Binney divides the work, Part I, with its three sections, is herewith presented. Part II is in press, and will embrace, in addition, a full index of authors, with a list of the publications of each, and a complete alphabetical index of all the names and synonyms, both generic and specific, referred to.

In order to render the work more perfect, a copy will be sent, as far as possible, to each living author mentioned, who is particularly requested to examine carefully and critically the account of his own writings, and to communicate to the Institution any errors or omissions, or any suggestions for improvement, to be incorporated into an appendix to Part II.

JOSEPH HENRY,
Secretary S. I.

SMITHSONIAN INSTITUTION,
WASHINGTON, March, 1863.

(ii)

PHILADELPHIA:
COLLINS, PRINTER.

PREFACE.

THE Bibliography of North American Conchology is intended to give a full account first, of the writings of American conchologists generally, and secondly, of such works of foreign authors as relate to the Shells or Mollusks of North America, as far south as about the Isthmus of Tehuantepec, and exclusive of the West Indies. It is therefore divided into two parts, as above indicated. Part I again separated into Section A, American descriptions of North American Mollusks, Section B, American descriptions of foreign Mollusks, and Section C, descriptions of foreign species by American authors in foreign works. Part I of the Bibliography, according to the above limitations, is herewith presented. Part II, to follow immediately, will complete the work and be accompanied by a full index of authors and names, and by a history of American Conchology.

It will be seen that each separate work or paper on the Recent Conchology of North America is taken up, its title and date given, its author's name, and a list of species therein described or in any important manner referred to, together with their synonymy, locality, and the volume, page, plate and figure relating to them. For their value as contributions to our knowledge of geographical distribution I have also quoted all the local lists of species, without descriptions. General works on Natural History and school books containing notices of conchology are sometimes referred to. They are too numerous and of too little importance to the scientific student to make it an object to include them all.

I have not included the Bryozoa. As it was necessary to draw the line between those to be omitted or quoted among the genera of doubtful position, I have decided to give only those included in the "Genera of Recent Mollusca," by H. and A. Adams.

The numerous typographical errors among the specific names of some of our works, especially local catalogues, have caused me some trouble and uncertainty. It was originally my intention to

correct them in my quotations, but it soon became evident that the better way would be to follow the original strictly. I have, therefore, done so, in the majority of cases. Many of the catalogues published without descriptions, and several of the general works not having been transcribed in my MSS., have been placed directly in the hands of the printer to be quoted. In these cases the original has been followed exactly. Generally it is easy to correct a typographical error—thus when an author describes a *Melania altalis*, it is evidently a mistake for *altilis*. And it is often easy to correct such errors as *Helix inmitissima*, which my knowledge of the names of our *Helices*, would enable me to change to *minutissima*. But when I find a quotation of *Helix materna*, even my special knowledge does not enable me to decide whether the author refers to *Helix fraterna* or *Helix interna*. In genera which I have not personally studied I should have no clue of this kind to guide me. It has seemed best, therefore, to adopt the plan of giving a faithful reprint of the original. Any corrections of typography which my friends may make, should be confined, therefore, to my own errors, omitting those repeated from the original work.

The geographical limits to which I have confined my work are the whole continent of North America, including Greenland and the Arctic regions on the north, and including on the south the Mexican States of Chiapas and Tabasco. Thus the West Indies are not included, nor should one expect to find as perfect a quotation of the species of South Western Mexico as of any portion of the United States. My limits are such as to embrace the fauna of North America, but not that of Panama or the West Indies.

All the quotations are given from personal examination of the works quoted. The proof has generally been corrected from the original work, thus avoiding many errors committed in transcribing. As it cannot be hoped that no mistakes have escaped my scrutiny, I particularly desire any person to call my attention to any that may be noticed.

W. G. BINNEY.

BURLINGTON, N. J., March, 1863.

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PART I.
AMERICAN AUTHORS.

A.—WRITINGS ON AMERICAN SPECIES.

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY.

Rafinesque.—Monographie des Coquilles bivalves et fluviatiles de la rivière Ohio (contenant douze genres et soixante-huit espèces: par M. C. S. RAFINESQUE, Prof. de bot. et d'hist. nat. à l'Univ. Transylvane de Lexington. Extrait de la 15^{me} livraison du 5^{me} tome des Annales Générales des Sciences Physiques. Sept. 1820, Bruxelles.)

Poulson.—The same, translated by C. A. POULSON, Philadelphia, 1832, without the plates, and with a frontispiece of *Unio verrucosa Raf.*

Page.	Plate.	Fig.	Page of tr.	Name.	Locality.
				FAM. PEDIFERIA.	
				1 ^{re} Sous-fam. UNIODIA.	
				1 ^{re} Genre UNIO.	
				1 ^{re} Sous-genre Elliptio.	
25	LXXX	1-4	15	<i>nigra Raf.</i>	Ohio.
27			18	<i>crassa Say.</i>	
27			19	<i>viridis Raf.</i>	Ohio & Kentucky river.
28			20	<i>fasciata Raf.</i>	Ohio, Alleghany, &c.
28			20	<i>caroliniana Bosc. (no des.)</i>	
28			20	<i>plicata? Lesueur =</i>	Lac Erie.
				var. d' <i>U. crassa (no des.)</i>	
28			20	<i>purpureus Say (no des.)</i>	Pennsylvania.
29			20	<i>aurata Raf.</i>	Hudson river.
				<i>pictorum</i>	
				2 ^{eme} Sous-genre Leptodea.	
29	LXXX	5-7	21	<i>leptodon Raf.</i>	Ohio.
29			22	<i>fragilis Raf.</i>	
30	LXXX	8-10	22	<i>nervosa Raf.</i>	Ohio river.

Page.	Plate.	Fig	Page of Ir.	Name.	Locality.
30	LXXX	11-13	23	3 ^{me} Sous-genre Aximedia.	Louisville, Maysville. Kentucky river. Ohio river.
30			24	<i>elliptica</i> Raf.	
31			24	<i>levigata</i> Raf.	
				<i>zonalis</i> Raf.	
31	LXXX	14-15	25	4 ^{me} Sous-genre Eurynia.	Ohio river.
31			25	<i>dilatata</i> Raf.	
32			26	<i>latissima</i> Raf.	
				<i>solenoides</i> Raf.	
				(3) <i>U. cylindrica</i> S.	
32	LXXX	16-19	27	2 ^{me} Genre LAMPSILIS.	Kentucky. Hudson river. Hudson river.
32			27	<i>cardium</i> Raf.	
33			28	<i>ovata</i> Say.	
33			28	<i>fasciola</i> Raf.	
33			28	<i>rosea</i> Raf.	
33			28	<i>pallida</i> Raf.	
34	LXXX	20-22	29	3 ^{me} Genre METAPTERA.	Ohio river.
34			30	<i>megaptera</i> Raf.	
34			30	<i>ochraceus</i> Say (no des.)	
				<i>cariosus</i> Say (no des.)	
34	LXXXI	1-4	31	4 ^{me} Genre TRUNCILLA.	Ohio river.
34			31	<i>triqueter</i> Raf.	
35			31	<i>truncata</i> Raf.	
				5 ^{me} Genre OBLIQUARIA.	
				1 ^{re} Sous-genre Plagiola.	
36	LXXXI	5-7	33	<i>decorticata</i> Raf.	Ohio river, Mississippi.
36			33	<i>interrupta</i> Raf.	Ohio river, Kentucky.
36			34	<i>depressa</i> Raf.	Evansville, Indiana.
37			35	<i>lineolata</i> Raf.	Ohio river.
37	LXXXI	10-12	35	2 ^{me} Sous-genre Ellipsaria.	Kentucky river. Ohio river, &c.
37			36	<i>ellipsaria</i> Raf.	
38			37	<i>fasciolaris</i> Raf.	
38	LXXXI	8-9	37	<i>verrucosa</i> Raf.	Ohio river.
38			37	<i>cuprea</i> Raf.	Monongahela, Potomac.
39			38	<i>attenuata</i> Raf.	Hudson river.
39	LXXXI	13-14	38	3 ^{me} Sous-genre Quadrula.	Kentucky, &c. Ohio river.
39			39	<i>flava</i> Raf.	
39			39	<i>cyphya</i> Raf.	
40	LXXXI	15-16	39	<i>metanevra</i> Raf.	Kentucky.
40			40	<i>reflexa</i> Raf.	Kentucky river.
40			41	<i>retusa</i> Raf.	Ohio and Kentucky riv.
40	LXXXI	19-20	41	<i>flexuosa</i> Raf.	Kentucky river.
41			42	<i>nodulata</i> Raf.	Kentucky river.
41			42	<i>quadrula</i> Raf.	Ohio river.
41			43	<i>bullata</i> Raf.	Ohio river.
42	LXXXI	21-23	44	4 ^{me} Sous-genre Rotundaria.	Ohio river, &c. Ohio river, &c. Ohio river.
42			44	<i>tuberculata</i> Raf.	
42			45	<i>subrotunda</i> Raf.	
				<i>pusilla</i> Raf.	

Page.	Plate.	Fig.	Page of tr.	Name.	Locality.
5 ^{me} Sous-genre Scalenaria.					
43	LXXXI	24-25	46	<i>obliquata Raf.</i>	Kentucky river.
43			43	<i>triangularis Raf.</i>	
43			47	<i>scalenia Raf.</i>	Kentucky river.
6 ^{me} Sous-genre Sintoxia.					
44			47	<i>lateralis Raf.</i>	Ohio river.
44			48	<i>sintoxia Raf.</i>	
II ^{me} Sous-fam. AMBLEMIDIA					
6 ^{me} Genre OBOVARIA.					
45	LXXXII	1-3	49	<i>obovalis Raf.</i>	Ohio river, &c.
45			49	<i>torsa Raf.</i>	Ohio river.
45			50	<i>striata Raf.</i>	Ohio river.
45	LXXXII	4-5	51	<i>pachostea Raf.</i>	Kentucky river.
46			51	<i>stegaria Raf.</i>	Ohio river.
46	LXXXII	6-7	52	<i>cordata Raf.</i>	Ohio river.
7 ^{me} Genre PLEUROBEMA.					
47	LXXXII	8-10	53	<i>mytiloides Raf.</i>	Wabash river.
47			53	<i>cuneata Raf.</i>	Ohio river.
8 ^{me} Genre AMBLEMA.					
48	LXXXII	11-12	55	<i>olivaria Raf.</i>	Kentucky river.
48			55	<i>rubra Raf.</i>	Kentucky river.
48			56	<i>torulosa Raf.</i>	Kentucky and Ohio riv.
49			56	<i>gibbosa Raf.</i>	Ohio river, &c.
49			57	<i>costata Raf.</i>	Ohio and Kentucky river.
49			LXXXII	13-14	57
III ^{me} Sous-fam. ANODONTIDIA.					
9 ^{me} Genre ANODONTA.					
1 ^{re} Sous-genre Anodonta.					
50			59	<i>An. marginata Say (no des.)</i>	Hudson river. Hudson river.
50			59	<i>cataracta Say (no des.)</i>	
50			59	<i>atra Raf.</i>	
50			59	<i>cuneata Raf.</i>	
2 ^{me} Sous-genre Strophitus.					
50			60	<i>undulata Say (no des.)</i>	
3 ^{me} Sous-genre Lastena.					
50	LXXXII	17-18	60	<i>Ohioensis Raf.</i>	Ohio river, &c.
51			61	<i>lata Raf.</i>	Kentucky river.
IV ^{me} Sous-fam. ALASMIDIA.					
10 ^{me} Genre. ALASMIDONTA.					
51	LXXXII	15-16	62	<i>A. marginata Say.</i>	Scioto river.
52			63	<i>costata Raf.</i>	Kentucky river.

Page.	Plate.	Fig	Page of tr.	Name.	Locality.
				V ^{ème} Sous-fam. CYCLADIA.	
				11 ^{ème} Genre CYCLAS.	
				Polymesoda.	
52			64	<i>C. Caroliniana</i> Bosc. (no des.)	
				Phymesoda.	
52			64	<i>C. dubia</i> Say (no des.)	
				Amesoda.	
52			64	<i>C. similis</i> Say (no des.)	
				Corbicula (MEGERLE).	Foreign species.
				—	
52	LXXXII	19-21	64	<i>C. (Ameroda) lasmapsis</i> Raf.	Ohio river, &c.
52			65	<i>C. (Phymeroda) equalis</i> Raf.	Ohio river.
				12 ^{ème} Genre TREMESIA.	
54	LXXXII	22-24	67	<i>Tremesia patelloides</i> Raf.	Ohio river.
54			67	<i>Mytilus recurvus</i> Raf.	New Orleans.
55			68	<i>Unio (Eurynia) teres</i> Raf.	Wabash river.
55			68	<i>Obliquaria (Ellipsaria) sinuata</i> Raf.	Kentucky river.
55			69	<i>O. (Ellipsaria) atrovioleacea</i> Raf.	Kentucky river.
55			69	<i>O. (Plagiola) Cliffordiana</i> Raf.	Kentucky river.
56			70	<i>Unio (Amblema) antrorsa</i> Raf. <i>Obovaria pachostea.</i>	

Rafinesque.—Continuation of the same. Philadelphia, Oct.
1831.

Page.	Name.	Locality.
2	Epioblasma n. g.	
2	<i>biloba</i> Raf.	Green and Kentucky rivers.
2	Toxalasma n. g.	
2	<i>cyclips</i> Raf.	Ohio and Mississippi rivers.
2	<i>U. abruptus</i> Say ?	
2	<i>cinerescens</i> Raf.	Ohio and Kentucky rivers.
2	<i>lividus</i> Raf.	Rockcastle river.
2	<i>flexus</i> Raf.	Kentucky river.
2	Bariosta Raf. n. g.	
2	<i>ponderosa</i> Raf.	Ohio and Mississippi rivers.
2	<i>Lampsilis vittata</i> Raf.	Green river.
2	<i>Eurynia montana</i> Raf.	Cumberland & Alleghany mts.
2	<i>Lampsilis dipoderma</i> Raf.	Salt river.
3	Metaptera diaphana Raf.	Kentucky.
3	<i>lasmabrachys</i> Raf.	Licking river.
3	<i>Eurynia rimosa</i> Raf.	Cumberland river.

Page.	Name.	Locality.
3	Lemiox Raf. n. s. g.	
3	Eurynia fulva Raf.	Green and Rockcastle rivers.
3	Obliquaria calendis Raf.	Dick river.
3	Venus Raf.	Kentucky & Cumberland riv's.
3	Aximedia Raf. n. s. g.	
3	Obliquaria plateolus Raf.	Cumberland river.
3	teneltus Raf.	Kentucky.
3	bicolor Raf.	Kentucky river.
3	violacea Raf.	
3	Unio dilatata Raf.	
3	pallens Raf.	Ohio and Kentucky.
3	rivularis Raf.	Cumberland mountains.
3	fontinalis Raf.	Cumberland mountains.
4	chloris Raf.	Cumberland mountains.
4	Sintoxia Raf.	
4	Obliquaria castanea Raf.	Kentucky.
4	Truncilla perplexa Raf.	Kentucky.
4	granulata Raf.	Salt river.
4	metaplata Raf.	Cumberland and Green rivers.
4	Unio pustulatus Raf.	} Are mentioned by name only.
4	punctatus Raf.	
4	scabar Raf.	
4	elegans Raf.	
4	badius Raf.	
4	crenulatus Raf.	
4	Unio latissima Raf.	
4	<i>U. recta</i> Lam?	
4	retusa Raf. = premorsus Raf.	
4	depressa Raf. = compressus Raf.	
4	sinuata Raf. = cultratus Raf.	
4	Subgenera of Alasmodonta .	
4	Lasmigona Raf.	
4	Amblasmodon Raf.	
4	Decurambis Raf.	
4	Sulcularia Raf.	
5	Pterosyna Raf. n. g. = Alasmodonta complanata Say.	
5	Alasmodon ponderosum Raf.	Ohio and Mississippi.
5	Gonamblyus Raf.	
5	Alasmodon rugosum Raf.	Tennessee river.
5	sulcatum Raf.	Tennessee and Mississippi.
5	viridis Raf.	Ohio river.
5	Amblasmodon hians Raf.	Tennessee river.
5	Decurambis scriptum Raf.	Green river.
5	atropurpureum Raf.	Cumberland River.
5	Sulcularia badium Raf.	Knobs.

Page.	Name.	Locality.
5	<i>papyracea</i> Raf.	East Kentucky.
5	<i>Lasmonos fragilis</i> Raf.	East Kentucky.
6	<i>Anodonta inflata</i> Raf.	Kentucky and Green river.
6	<i>digonota</i> Raf.	Lake Erie.
6	<i>rufa</i> Raf. (no des.)	
6	<i>Flexiptis</i> Raf. n. s. g.	
6	<i>Diplasma</i> Raf. n. g.	
	<i>marginata</i> Raf.	Tennessee?

Rafinesque.—*Apolosia*, the Mollusca: by C. S. RAFINESQUE.
(From *Annals of Nature*, No. 1, 1820, with descriptions.)

Page.	No.	Name.	Locality.
10		<i>Phylomycus</i> Raf. n. g.	
10	69	<i>quadrulus</i> Raf.	Hudson river.
10	70	<i>oxyurus</i> Raf.	New York.
10	71	<i>fuscus</i> Raf.	Ohio.
10	72	<i>flexuolaris</i> Raf.	Catskill mountains.
10		<i>Eumelus</i> Raf. n. g.	
10	73	<i>nebulosus</i> Raf.	Ohio, Kentucky.
10	74	<i>lividus</i> Raf.	Ohio, Kent'ky, Ind.
10	75	<i>gracilis</i> Raf. (<i>Deroceras</i> ?)	Hendersonville, Ky.
10		<i>Hemiloma</i> Raf. n. g. (univalve land shell).	
10	76	<i>ovata</i> Raf. (fossil?)	Lexington.
11	77	<i>Pleurocera verrucosa</i> Raf.	Ohio river.

Lesueur.—Descriptions of several new species of Cuttle-fish:
by C. A. LESUEUR. (From *Journal of the Academy of Natural Sciences of Philadelphia*, vol. ii, part i, 1821.)

Vol.	Page.	Plate.	Name.	Locality.
ii	92	viii	<i>Loligo Pealeii</i> Lesueur.	C. of South Carolina?
ii	95	?	<i>illecebrosa</i> Lesueur.	Sandy Bay, Newfoundland.
ii	96	?	<i>pavo</i> Lesueur.	Sandy Bay.
ii	98	ix	<i>Onykia Carribæa</i> Lesueur.	Gulf of Mexico.

Barnes.—On the Genera *Unio* and *Alasmodonta*; with Introductory Remarks: by D. W. BARNES, M. A., Member N. Y. Lyc. Nat. Hist. (*American Journal Science and Art*, O. S. vi, No. 1, pp. 107-127; No. 2, pp. 258-280. Date of title, 1823.)

Page.	Fig.	Name.	Locality.
118	1	<i>Unio crassus</i> Say.	Ohio & Mississippi rivers; lakes.
		<i>U. crassidens</i> Lam.	
		<i>Mya ponderosa</i> Dillw.?	
120	2	<i>undulatus</i> Barnes.	Ohio river.
		<i>U. Peruviana</i> ? Lam.	

Page.	Fig.	Name.	Locality.
120	3	Unio plicatus Say. <i>U. variplicata</i> Lam.	Ohio, Mississippi, Wisconsin.
121	4	undatus Barnes. <i>U. obliqua</i> Lam.?	Wisconsin and Fox rivers.
122	5	cornutus Barnes.	Fox river.
123	6	verrucosus Barnes.	Wisconsin riv. ; Lake Erie.
124	7	nodosus Barnes.	Wisconsin.
125	8	tuberculatus Barnes.	Wisconsin.
126	9	rugosus Barnes.	Ohio.
259	19	ellipticus Barnes. <i>U. crassus</i> Say. <i>Mya complanata</i> Dillw.	Fox river.
259	10	carinatus Barnes.	Fox river.
260		alatus Say.	Wisconsin.
261	11	prælongus Barnes. <i>U. purpurata</i> Lam.?	Wisconsin.
262	12	gibbosus Barnes.	Wisconsin.
263		cuneatus Barnes.	Ohio river.
264		purpureus Say. <i>U. purpurascens</i> Lam. <i>rarisulcata</i> Lam.? <i>coarctata</i> Lam.? <i>rhombula</i> Lam.? <i>carinifera</i> Lam.? <i>Georgina</i> Lam.?	East of Alleghany mts.
265		radiatus Dillw. <i>U. ochraceus</i> Say. <i>radiata</i> Lam.	North America.
266	13	mucronatus Barnes.	Wisconsin river.
266		inflatus Barnes.	Wisconsin riv. & Lake Erie.
267	14	ventricosus Barnes.	Wisconsin and Miss. rivers.
269	15	siliquoideus Barnes.	Wisconsin river.
270		ovatus Say.	Ohio and Maumee rivers.
271		cariosus Say.	North America.
272	16	planus Barnes.	Wisconsin river.
272	17	triangularis Barnes.	Detroit river.
273		nasutus Say.	Delaware river.
274		gracilis Barnes. <i>U. alatus</i> Say.	Wisconsin riv. & the lakes.
274	18	parvus Barnes.	Fox river.
277	20	Alasmodonta arcuata Barnes.	West Canada Creek.
278	21	rugosa Barnes.	Fox river.
278	22	complanata Barnes.	Fox river, Wisconsin.
279		marginata Say. (no des.)	
279		undulata Say. (no des.)	

Lesueur.—Description of a new species of Cephalopode of the genus *Loligo*: by C. A. LESUEUR. (From *Journal Acad. Nat. Sci. of Philadelphia*, O. S., vol. iii, pt. 2, 1824.)

Vol.	Page.	Plate.	Name.	Locality.
3	282	x	<i>Loligo brevipinna</i> Lesueur.	Delaware Bay.

Lesueur.—Description of several new species of *Ascidia*: by C. A. LESUEUR. (From the same, vol. iii, pt. 1, 1823.)

Vol.	Page.	Plate.	Name.	Locality.
3	vii	4, 5	<i>Ascidia proboscidea</i> Lesueur. (Only American species.)	Georgia.

Coates.—Remarks on the floating apparatus and other peculiarities of the genus *Janthina*: by REYNELL COATES, M. D. (In the *Journal of the Academy of Natural Sciences of Philadelphia*, vol. iv, pt. 2, p. 356–360, 1825.)

Barnes.—Notes on the *Murex corona* of Gmelin: by D. H. BARNES. (From the *Annals of the New York Lyceum of Natural History*, vol. ii, pp. 291, 292. Read Oct. 8, 1827. Date of title-page of vol. ii, 1828.)

Page.	Name.	Locality.
291	<i>Murex corona</i> Gmel. <i>Fusus corona</i> Lam.	Gulf of Mexico.

Green.—Description of *Helix Pennsylvanicus*: by JACOB GREEN. (From the *Contributions of the Maclurian Lyceum to the Arts and Sciences*, vol. i, No. 1, p. 8. Philadelphia: Jan. 1827.)

Green.—Some remarks on the *Unios* of the United States, with a description of a new species: by JACOB GREEN, A. M., Prof. Chem. Jeff. Med. Coll. (From the same, vol. i, No. 2, p. 41. July, 1827.)

[Specific characters, variations, nacre, monstrosities, erosion, pearls, habits of various species, and facts concerning synonymy.]

Page.	Fig.	Name.	Locality.
46	iii	<i>Unio Æsopus</i> Green.	Pittsburg.

[Descriptions and figures of *Achatina Stewartii* and *A. Oahuensis* are given in the succeeding article, and in No. 3, by the same author.]

Barnes.—Reclamation of Unios: by D. H. BARNES. (Amer. Journal of Science and Arts, O. S., vol. xiii. No. 2, pp. 358-364. Date of title, Jan. 1828.)

[This paper forms a criticism of Valenciennes' Uniones in Humboldt and Bonpland's Zoological Observations.—W. G. B.]

Page.

359	Unio ovata Val. = U. cariosus Say.
3 0	Dombeyanus = Conf. U. rugosus and U. undulatus .
360	verrucosus = U. verrucosus b. Barnes.
360	tuberculosus = U. verrucosus Barnes (young).
360	rostratus = U. nasutus Say non Lam.
361	naviformis Lam. = U. cylindricus Say.
361	rectus Lam.
361	hians = Alasmodonta undulata Say.
363	Anodonta glauca = An. marginata Say.
363	purpurea = Alasmodonta .

Hildreth.—Observations on, and descriptions of, the Shells found in the waters of the Muskingum River, Little Muskingum, and Duck Creek, in the vicinity of Marietta, Ohio: by S. P. HILDRETH, M. D. (In the American Journal of Science, O. S., vol. xiv, pp. 276-291, 1828. With two plates.)

Page.	Fig.	
278	1	Unio crassus .
278	2	ellipticus .
279	3	cuneatus .
279	4	undulatus .
280	5	plicatus . (Var. of <i>undatus</i> teste Barnes.—Eds. Jour.)
280	6, 7	undatus .
281	8	verrucosus purpureus .
281	9	verrucosus albus .
281	10	nodosus .
282	11	tuberculatus .
282	12	rugosus .
283	13	cylindricus .
283	14	phaseolus .
		(White var. of <i>cuneatus</i> teste Barnes.—Eds. Jour.)
284	15	orbiculatus .
284	16	foliatus [Hildreth].
		(New and distinct, Barnes.—Eds. Journal.)
285	17	alatus .
286	18	prælongus .
286	19	gibbosus .

Page.	Fig.	
286	20	Unio radiatus. (<i>U. ventricosus</i> (young) Barnes.—Ed. Jr.)
287	21	ovatus.
287	22	triangularis.
288	23	gracilis.
289	24	Alasmodonta rugosa.
289	25	complanata.
290	26	Anodonta undulata.
290	27	Paludina decisa.

Nicklin.—Conchological Observations on Lamark's Family of Naiades: by PHILIP HOULBROOKE NICKLIN. (From Transactions American Philosophical Society, N. S., vol. iii, pp. 395-399. Read March 6, 1829.)

Menke.—Synopsis methodica Molluscorum, etc., quæ in Museo-Menkeano adservantur; cum synonymia critica et novarum specierum diagnosis, auctore CAROLO THEODORO MENKE, M. D^{re}. Pyrmonti, 1830. Editio altera.

[I give only the American species described as new.—W. G. B.]

Page.	Name.	Locality.
132	Physa striata Menke.	Goshen, Mass.
132	subarata Menke.	Cincinnati.
133	Cyclostoma Mexicanum Menke.	Papantla, Mexico.
134	Paludina sulcosa Menke.	Cincinnati.
134	Melania cruentata Menke.	Cincinnati.
134	ovularis Menke.	Cincinnati.
135	angulosa Menke.	Cincinnati.
135	livescens Menke.	Lake Erie.
135	curta Menke.	Philadelphia.
135	exarata Menke.	Cincinnati.
136	ligata Menke.	Cincinnati.
136	fasciata Menke.	Philadelphia.
136	auriscalpium Menke.	Cincinnati.
137	Oxytrema crenulatum Menke.	Mexico.

Green.—Monograph of the Cones of North America, including three new species: by JACOB GREEN, M. D. (From Transactions of the Albany Institute, vol. i. Albany, 1830.)

Page.	Plate.	Fig.	Name.	Locality.
122	iii	1	Conus mus Brug.	Florida Keys.
123	iii	4	Leucosticus Gmel.	Florida Keys.
123	iii	3	Pealii Green.	Keys Vache.
123	iii	5, 6	mamillaris Green.	Florida.
124	iii	2	Marylandicus Green (fossil).	Maryland.
124			deluvianus Green (fossil)	St. Mary's, Md.

(Remarks on **Pecten Clintonius** Say, fossil.)

Green.—On the *Dolia* of the United States: by same. (From the same work.)

Page.	Plate.	Name.	Locality.
131	iv	Dolium zonatum Green.	Western coast.
132		perdix Lin.	Chesapeake Bay to Florida.
132		plumatum Green.	
		<i>Buccinum maculosum</i> Solander?	
133		olearium Lin.	Florida.

Green.—Notes on the American Shells figured in the Supplement to the Index Testaceologicus: by same. (From same work as above. No descriptions are given.)

- Page.
- 134 **Unio** (**Mya**) **rotunda** Wood = **U. circulus** Lea.
Mya oblongata.
nasuta.
undulata Wood, not **U. undulata** Barnes; **U. plicatus** Lesueur (*teste* Lea) is **U. Peruviana** Lam.
gravis and *cariosus.*
rugulosa is not *rugosus* Barnes (not a var. of *metanevra*).
obliquus Wood = *obliqua* Lam. or *scalenius* Raf.
- 135 **Castalia ambigua** not from U. S.
Unio rigida Wood.
praelonga Barnes = *rectus* Lam.
Hyria unguata Wood not U. S.
Strombus noviboracenses Wood = **Nassa obsoleta.**
Helix angulata = **Planorbis bicarinatus.**
Paludina subcarinata Wood = **Pal. dissimilis.**
Helix fraterna Wood = **H. hirsuta** Say.
Paludina discissa Wood = **Pal. subcarinata** Say.
dissimilis Wood = **Pal. discisa** Say.
Virginica Wood = **Melania Virginica.**
- 136 **Polygyra auriculata** Say = **Helix Sayii** Wood.

(Also remarks on the American species of *Unio* in the British Museum, and notes on figures of Wood which are correctly named.)

Conrad.—On the Geology and Organic Remains of a part of the peninsula of Maryland: by TIMOTHY A. CONRAD. (In the Journal of the Academy of Natural Sciences of Philadelphia, vol. vi, pt. 2, pp. 205–217, 1830.)

The following species are said to be found recent on our coast:—

Page.		Page.	
207	Crepidula convexa Say.	208	Psammobia fusca Say.
207	<i>glaucia</i> Say.	208	<i>lusoria</i> Say.
207	Fusus cinereus Say.	208	Solen Caribæus Linn.
207	Nassa obsoleta Say.	208	<i>ensis</i> Linn.
207	<i>trivittata</i> Say.	208	Venus mercenaria Lam.
207	Natica duplicata Say.	211	Nassa trivittata Say.
207	Ranella caudata Say.	211	<i>obsoleta</i> Say.
207	Arca transversa Say.	211	<i>lunata</i> Say.
207	<i>ponderosa</i> Say.	211	Natica heros Say.
207	Corbula contracta Say.	211	Pyrula carica Lam.
208	Clathrodon cuneata Gray.	211	<i>canaliculata</i> Lam.
	<i>Cyrena truncata</i> Lam. ?	211	Scalaria clathrus .
208	Mactra lateralis Say.	212	Arca arata Say.
208	Mya mercenaria Say.	212	Cytherea concentrica Lam.
208	Mytilus hamatus Say.	212	Ostrea Virginica Lam.
208	Pandora trilineata Say.	212	Saxicava distorta Say.
208	Petricola pholadiformis	212	Venus paphia ?
	<i>Lam.</i>	216	Lucina divaricata Lam.
	<i>P. fornicata</i> Say.	216	Fissurella græca Lam.
208	Pholas costata Lam.		

Conrad.—In the same volume of the Journal (pp. 256–268), are descriptions of fifteen new species of recent, and three of fossil shells, chiefly from the coast of the United States, by TIMOTHY A. CONRAD; with a plate. April, 1831.

Page.	Plate.	Fig.	Name.	Locality.
256			Mactra solidissima Chemnitz.	
			<i>M. solida</i> var. β Gmelin.	
			<i>M. procera</i> Solander.	
			<i>M. grandis</i> Solander.	
			<i>M. stultorum</i> Solander.	
			<i>M. gigantea</i> Lamark.	
			<i>M. similis</i> Say.	
257	xi	1	arcata Conrad.	Massachusetts.
258	xi	2, 3	tellinoides Conrad.	Mass., R. I., Fl.
258	xi	4	nucleus Conrad.	New Jersey.
259	xi	5, 6, 7	Cardium Mortoni Conrad.	Northern coast.
260	xi	8	pinnulatum Conrad.	Massachusetts.

Page.	Plate.	Fig.	Name.	Locality.
200			Pecten Pealii Conrad.	Maine.
261	xi	12	Mya hyalina Conrad.	Northern coast.
261			Cytherea convexa Say.	R. I., N. J.
263	xi	11	Anatina Leana Conrad.	Northern coast.
263	xi	13	Mytilus leucophæatus Conrad.	Southern coast.
265			Remarks on Pecten Magellanicus .	
266	xi	17, 18	Velutina rupicola Conrad.	Massachusetts.
266	xi	19	Lacuna pertusa Conrad.	Massachusetts.
267	xi	20	Patella alveus Conrad.	Massachusetts.

Short; Eaton.—Notices of Western Botany and Conchology: by C. W. SHORT, M. D., and H. H. EATON, A. M. (From the Transylvania Journal of Medicine, Feb. 1831. No descriptions are given, but full notes and the locality of each species.)

Page.		Page.	
74	Unio plicatus Lesueur.	77	Unio rectus Lea.
	<i>U. costata</i> Raf. ?		<i>U. praelongus</i> Barnes.
74	mytiloides Raf.	78	gibbosus Barnes.
	<i>U. undatus</i> Barnes.	78	cuneatus Barnes.
74	scalenius Raf.	78	ovatus Say.
75	ellipsis Lea.	78	occidens Lea.
75	sulcatus Lea.	78	triangularis Barnes.
75	ridibundus Say.	78	parvus Barnes.
75	torulosus Raf.	79	zigzag Lea.
	<i>U. cornutus</i> Barnes.	79	triqueter Raf.
	<i>U. foliatus</i> Hildreth.		<i>U. calceolus</i> Lea.
75	verrucosus Barnes.	79	monodonta Say.
76	metaneuver Raf.		<i>Alasmodonta costata</i> Raf.
	<i>U. nodosus</i> Barnes.	80	Symphonota alata Lea.
	<i>U. rugosus</i> Barnes.		<i>U. alatus</i> Say.
76	lachrymosus Lea.	80	complanata Lea.
76	tuberculatus Barnes.		<i>Alasm. complanata</i> Barn.
76	cylindricus Say.	80	lævissima Lea.
76	cariosus Say.	80	gracilis Lea.
	<i>U. crassus</i> Say.		<i>U. gracilis</i> Barnes.
	<i>U. carinatus</i> Barnes.		<i>U. planus</i> Barnes.
	<i>U. ellipticus</i> Barnes.	80	tenuissima Lea.
77	phaseolus Hildreth.		<i>Anodonta lata</i> Raf. ?
	<i>U. planulatus</i> Lea.	81	Alasmodonta rugosa Barnes.
77	securis Lea.	81	Anodonta undulata Say.
	<i>U. depressa</i> Raf.	81	Cyclas similis Say.
77	torsus Raf.	82	Melania Sayii Wood.
77	circulus Lea.	82	Virginica Say (Limnea).
77	irroratus Lea.	82	Paludina decisa Say.
		82	— ?

Rafinesque.—Enumeration and account of some remarkable Natural Objects in the Cabinet of Prof. RAFINESQUE, in Philadelphia. Philadelphia, Nov. 1831.

FLUVIATILE UNIVALVE SHELLS.

Page.	Name.	Locality.
2	Pleurocera gonula Raf.	Kentucky river.
3	acuta Raf.	Lake Erie.
3	rugosa Raf.	Western Kentucky.
3	Melania (Ambloxeus) rugosa Raf.	Cumberland mountains.
3	viridis Raf.	Licking river.

LAND UNIVALVE SHELLS.

3	Aplodon Raf. n. g.	
3	nodosum Raf.	Kentucky.
3	Stenostoma Raf. n. g.	
3	convexa Raf.	Kentucky.
3	Toxostoma Raf. n. g.	
3	globularis Raf.	Kentucky.
3	Mesodon Raf. n. g.	
3	maculata Raf.	
3	Trophodon Raf. n. g.	
3	Odomphium Raf. n. g.	
3	Omphalina Raf. n. g.	
3	cuprea Raf.	Kentucky.
3	Triodopsis Raf. n. g.	
3	lunula Raf.	Kentucky.
3	Menomphis Raf. n. s-g.	
3	Xolotrema Raf. n. g.	
3	clausa Raf.	
3	Agatina variegata Raf.	Louisiana.
3	fuscata Raf.	Texas.

Green.—Notes of a Naturalist: by JACOB GREEN, M. D. (From the Cabinet of Natural History and American Rural Sports, vol. ii. J. & T. Doughty: Philadelphia, 1832.)

Page.	Name.	Locality.
290	Unio capax Green.	Falls of St. Anthony; Bayou Têche.
291	Helicina rubella Green.	Western Pennsylvania.
291	Paludina Alleghanensis Green.	Mountains of Pennsylvania.

Anonymous.—Ohio Shells; a criticism on Notices of Western Botany and Conchology by C. W. SHORT, M. D., and H. HULBERT EATON, A. M. (R. S); and Monograph of the Bivalve Shells of the river Ohio: translated from the French of Prof. RAFINESQUE by C. A. POULSON, Esq. (From the Monthly American Journal of Geology and Natural Science, vol. i, No. 8, pp. 370-377. Philadelphia, Feb. 1832.)

Investigator.—Remarks on the article contained in Silliman's Journal for April, 1832, entitled "Mr. Lea on the Naiades:" by INVESTIGATOR. (From the same, vol. i, No. 12, pp. 537-549. June, 1832.)

Page.

- | | |
|-----|--|
| 543 | Unio <i>occidens</i> Lea = U. <i>ventricosus</i> Barnes. |
| 544 | <i>oriens</i> Lea = U. <i>dehiscens</i> Say. |
| 544 | <i>trapezoides</i> Lea = U. <i>interruptus</i> Say. |
| 544 | <i>multiplicatus</i> Lea = U. <i>heros</i> Say. |
| 544 | <i>ellipsis</i> Lea = U. <i>olivaria</i> Rafinesque. |
| 545 | <i>irroratus</i> Lea = U. <i>stegaria</i> var. Rafinesque. |
| 545 | <i>planulatus</i> Lea = U. <i>fasciolaris</i> Rafinesque. |
| 545 | <i>circulus</i> Lea = U. <i>striata</i> var. <i>rosea</i> Rafinesque. |
| | <i>U. orbiculatus</i> } |
| | <i>torsus</i> } are also remarked on. |
| | <i>rotundata</i> } |
| 545 | <i>patulus</i> Lea = U. <i>cuneata</i> Rafinesque. |
| 545 | <i>rubiginosus</i> Lea = U. <i>flava</i> Rafinesque. |
| 546 | <i>donaciformis</i> Lea = U. <i>truncata</i> Rafinesque. |
| 546 | <i>securis</i> Lea = U. <i>depressa</i> Rafinesque. |
| 546 | <i>pustulosus</i> Lea = U. <i>bullata</i> Rafinesque. |
| 546 | <i>pustulatus</i> Lea = U. <i>nodosa</i> Rafinesque. |
| 546 | <i>soleniformis</i> Lea = U. <i>monodonta</i> Say. |
| 546 | <i>perplexus</i> Lea = U. <i>gibbosa</i> Rafinesque. |
| 546 | <i>pileus</i> Lea = U. <i>flexuosus</i> Rafinesque. |
| 546 | <i>sulcatus</i> Lea = U. <i>obliquata</i> Rafinesque. |
| 546 | <i>pyramidatus</i> Lea = U. <i>rubra</i> Rafinesque. |
| 546 | <i>lachrymosus</i> Lea = U. <i>metanевра</i> Rafinesque? |
| | <i>U. metanевра</i> Rafinesque, is not <i>U. quadrula</i> . |
| 546 | <i>asperrimus</i> Lea = U. <i>rugosus</i> Barnes. |
| 546 | <i>brevidens</i> Lea = U. <i>depressa</i> Rafinesque. |
| 546 | <i>varicosus</i> Lea = U. <i>esopus</i> Green. |

Conrad.—On some New Fossil and Recent Shells of the United States: by T. A. CONRAD. (Am. Journ. Sci., O. S., xxiii, No. 2, pp. 339-346. Date of title-page, Jan. 1833.)

RECENT SHELLS.

Page.	Name.	Locality.
344	<i>Lucina Floridana</i> Conrad.	Pensacola.
345	<i>Cytherea Sayana</i> Conrad. <i>C. convexa</i> Say (preoc.)	Rhode Isl. & N. Jersey.
345	<i>Melampus borealis</i> Conrad.	Rhode Island.
345	<i>Ungulina transversa</i> Lam. (notes on).	West Indies.
345	<i>Lima glacialis</i> Lam. (notes on).	West Indies.
346	<i>Pholas costata</i> Lin. (notes on).	Mid. & Southern States.
346	<i>Cardium Mortonii</i> Conrad (notes on).	Southern States, Fla.

Ravenel.—Catalogue of Recent Shells in the Cabinet of EDMUND RAVENEL, M. D. Charleston, S. C., 1834.

[No descriptions are given. The following are the American species:—]

Page.	Name.	Locality.
2	<i>Teredo navalis</i> Lam.	South Carolina.
2	<i>Pholas costata</i> Lam.	South Carolina.
2	<i>oblongata</i> Say.	South Carolina.
2	<i>truncata</i> Say.	South Carolina.
2	<i>cuneiformis</i> Say.	South Carolina.
2	<i>Solen ensis</i> Lam.	Maine, South Carolina.
2	<i>viridis</i> Say.	South Carolina.
2	<i>caribæus</i> Lam.	South Carolina.
2	<i>radiatus</i> .	Massachusetts.
2	<i>Mya arenaria</i> Lam.	Bay of New York.
2	<i>Lutraria canaliculata</i> Say.	South Carolina.
2	<i>lineata</i> Say (rare).	South Carolina.
2	<i>Mactra gigantea</i> Lam. <i>solidissima</i> Chem. <i>similis</i> Say. <i>grandis</i> Solander.	Massachusetts.
2	<i>similis</i> Say. <i>grandis</i> Solander.	South Carolina.
2	<i>lateralis</i> Say.	South Carolina.
2	<i>oblongata</i> Say.	South Carolina.
3	<i>Amphidesma æquale</i> Say.	South Carolina.
3	<i>orbiculata</i> Say.	South Carolina.
3	<i>lepidia</i> Say.	South Carolina.
3	<i>Corbula contracta</i> Say.	South Carolina.
3	<i>Pandora trilineata</i> Say.	Nantucket.
3	<i>Pectriola pholadiformis</i> Lam	South Carolina.
3	<i>dactylus</i> Sowb.	South Carolina.
3	<i>flagellata</i> (new) Say.	South Carolina.
3	<i>Sanguinolaria lusoria</i> Conrad. <i>Psammodia lusoria</i> Say.	South Carolina.

Page.	Name.	Locality.
3	Sanguinolaria fusca Conrad. <i>Psammobia fusca</i> Say.	South Carolina.
3	Tellina tenuis?	South Carolina.
4	<i>interrupta</i> Dillw.	South Carolina.
4	<i>alternata</i> Say.	South Carolina.
4	<i>polita</i> Say.	South Carolina.
4	<i>iris</i> Say.	South Carolina.
4	<i>brevifrons</i> Say (new).	South Carolina.
4	Lucina edentula Lam.	South Carolina.
4	<i>divaricata</i> Lam.	South Carolina.
4	Donax variabilis Say.	South Carolina.
4	Crassina castanea Say.	Maine.
4	Cyclas partumœia Say.	South Carolina.
4	<i>similis</i> Say.	Pennsylvania.
4	Cyrena caroliniensis Lam.	South Carolina.
4	Cyprina Islandica Lam.	Massachusetts.
4	Cytherea gigantea Lam.	East Florida.
4	<i>concentrica</i> Lam.	South Carolina.
4	Sayana.	Rhode Island.
4	Venus mercenaria Lam.	South Carolina.
5	<i>paphia.</i>	South Carolina (rare).
5	<i>notata</i> Say.	N. York, South Carolina.
5	Cardium Isocardia Lam.	South Carolina (rare).
5	<i>muricatum</i> Lam. (var.)	South Carolina.
5	<i>maculatum</i> Dillw.	South Carolina.
5	Mortoni Conrad.	Massachusetts.
5	Arca scapha Lam.	South Carolina (rare).
5	<i>incongrua</i> Say.	South Carolina.
5	<i>pexata</i> Say.	South Carolina.
5	<i>ponderosa</i> Say.	South Carolina.
5	<i>transversa</i> Say.	South Carolina.
5	Campechensis Dillw.	South Carolina.
5	Unio alatus Lam.	Ohio river.
	<i>Symphinota alata</i> Lea.	
5	<i>angustatus</i> Lea.	Cooper river, S. C.
5	<i>asperimus</i> Lea.	Ohio river.
5	<i>cæopus</i> Greene.	Ohio river.
5	<i>cariosus</i> Say.	Ohio river.
5	<i>circulus</i> Lea.	Ohio river.
	<i>U. rotundatus</i> Lam.	
6	complanatus Soland.	South Carolina.
	<i>U. purpureus</i> Say.	
	<i>carenifera</i> Lam. (var.)	
6	congareus Lea.	Congaree river, S. C.

Page.	Name.	Locality.
6	Unio cornutus <i>Barnes.</i>	Ohio river.
	<i>U. reflexus</i> Raf.	
6	cuneatus <i>Barnes.</i>	Ohio river.
	<i>U. niger</i> Raf.	
6	cylindricus <i>Say.</i>	Ohio river.
	<i>U. naviformis</i> Lam.	
6	decisus <i>Lea</i>	Alabama river.
6	elipsis <i>Lea.</i>	Ohio river.
6	foliatus <i>Hildreth.</i>	Ohio river.
6	formosus <i>Lea.</i>	Ohio and Niagara rivers.
	<i>U. cuneatus</i> Swainson.	
6	gibbosus <i>Barnes.</i>	Ohio river.
6	irroratus <i>Lea.</i>	Ohio river.
6	lacrymosus <i>Lea.</i>	Ohio river.
	<i>U. quadrulus</i> Say.	
6	lens <i>Lea.</i>	Ohio river.
6	metanever <i>Raf.</i>	Ohio.
6	multiplicatus <i>Lea.</i>	Ohio.
6	mytiloides <i>Raf.</i>	Ohio.
6	nasutus <i>Say.</i>	S. Carolina, Massachusetts.
	<i>U. rostrata</i> Valenc.	
6	ochraceus <i>Say.</i>	Schuylkill river.
6	ovatus <i>Say; Lam. 23</i>	
6	perplexus <i>Lea.</i>	Ohio river.
6	plicatus <i>Lesueur.</i>	Ohio river.
	<i>U. crassidens</i> Lam.	
	<i>peruvianus</i> Lam.	
	<i>rariplacatus</i> Lam.	
6	pustulatus <i>Lea.</i>	Ohio.
6	pustulosus <i>Lea.</i>	Ohio.
6	pyramidatus <i>Lea.</i>	Ohio.
	<i>U. undatus</i> Barnes.	
6	rectus <i>Lam.</i>	Ohio.
6	radiatus <i>Gmel.</i>	Pennsylvania, S. Carolina.
	<i>U. radiata</i> Lam.	
	<i>virginiana</i> Lam.	
6	securis <i>Lea.</i>	Ohio.
	<i>U. depressa</i> Raf.	
6	siliquoides <i>Barnes.</i>	Ohio.
6	scalenus <i>Raf.</i>	Ohio.
6	subovatus <i>Lea.</i>	Ohio.
6	subtentus <i>Say.</i>	Virginia.
6	sulcatus <i>Lea.</i>	
7	tæneatus (new?)	Cooper river, S. C.
7	tenerus (new?)	Cooper river, S. C.

Page.	Name.	Locality.
7	<i>Unio torsus Raf.</i>	Ohio.
7	<i>triangularis Barnes.</i>	Ohio.
7	<i>tuberculatus Barnes.</i>	Ohio.
7	<i>verrucosus Barnes.</i>	Ohio.
7	<i>zigzag Lea.</i>	Ohio.
7	<i>Alasmodonta arcuata Say.</i>	Maine, New Jersey.
7	<i>coarctata (new?)</i>	Riv's in upper part S. C.
7	<i>complanata Say.</i>	Ohio.
	<i>Symphinota complanata Lea.</i>	
7	<i>marginata.</i>	Mass., Niagara river.
7	<i>undulata.</i>	New Jersey.
7	<i>rugosa Barnes.</i>	Tennessee.
7	<i>Anodonta cataracta Lam.</i>	Maine, South Carolina.
7	<i>Chama arcinella Lam.</i>	South Carolina.
7	<i>Modiola papuana Lam.</i>	Maine.
7	<i>tulipa Lam.</i>	East Florida.
7	<i>lithophaga Lam. (rare.)</i>	East Florida.
7	<i>Mytilus borealis Lam.</i>	New York.
7	<i>demissus Say.</i>	South Carolina.
7	<i>leucopheus Conrad.</i>	South Carolina.
7	<i>Pinna seminuda? Lam.</i>	South Carolina.
7	<i>muricata? Lam.</i>	South Carolina.
	<i>P. rigida Wood.</i>	
8	<i>Avicula macroptera? Lam.</i>	South Carolina.
8	<i>Lima squamosa Lam.</i>	East Florida.
8	<i>glacialis Lam.</i>	East Florida.
8	<i>Pecten Magellanicus Lam.</i>	Maine.
8	<i>Islandicus Lam.</i>	Newfoundland.
	<i>P. Pelii Conrad.</i>	
8	<i>concentricus Say.</i>	Massachusetts.
8	<i>dislocatus Say.</i>	East Florida.
8	<i>Plicatula cristata Lam.</i>	South Carolina.
8	<i>Ostrea Virginica Lam.</i>	South Carolina.
8	<i>equestris Say (new).</i>	South Carolina.
8	<i>fundata Say (new).</i>	South Carolina.
8	<i>Anomia ephippium Lam.</i>	South Carolina.
8	<i>Chiton apiculatus Say (new).</i>	South Carolina.
9	<i>Fissurella alternata Say.</i>	South Carolina.
9	<i>Crepidula fornicata Lam.</i>	South Carolina.
9	<i>aculeata Lam.</i>	South Carolina.
9	<i>convexa Say.</i>	South Carolina.
9	<i>plana Say.</i>	South Carolina.
9	<i>Bulla solitaria Say.</i>	South Carolina.
9	<i>Helix aspersa Lam.</i>	South Carolina.
9	<i>albolabris Say.</i>	S. Carolina, Penn'a.

Page.	Name.	Locality.
9	Helix thyroideus Say.	South Carolina.
9	ligera.	Pennsylvania.
9	inornatus Say.	South Carolina.
9	perspectiva.	Pennsylvania.
9	tridentata Say.	Pennsylvania.
	<i>II. trid. var. epliabus</i> Say.	South Carolina.
9	avara Say.	South Carolina.
9	appressa Say.	Pennsylvania.
9	hirsuta.	Pennsylvania.
9	suppressa Say.	South Carolina.
9	gularis.	Pennsylvania.
9	glaphyra.	Pennsylvania.
9	fuliginosus.	Pennsylvania.
10	profunda Say.	Pennsylvania.
10	concava.	Pennsylvania.
10	Pennsylvanica.	Pennsylvania.
10	solitaria.	Ohio.
10	alternata Say.	North Carolina.
10	Bulimus undatus Lam. (var.)	East Florida.
10	mutilatus Say.	South Carolina.
10	Achatina glans Lam.	South Carolina.
10	Succinea ovalis Say.	Pennsylvania.
10	obliqua.	Pennsylvania.
11	Planorbis trivolvus Say.	Delaware.
11	lentus Say.	South Carolina.
11	complanatus.	Western lakes.
11	Physa heterostropha .	Lehigh river, Penn'a.
11	gyrina Say.	South Carolina.
11	Lymnæa catascopium .	Delaware.
11	merostoma.	Near Philadelphia.
11	columella.	Pennsylvania.
11	emarginata.	Maine.
11	Melania subularis Lea.	Niagara river.
11	virginea.	Schuylkill.
11	dissimilis.	Susquehanna.
11	canaliculata Say.	Ohio.
11	carinata (new?)	Yadkin river, N. C.
11	costata (new?)	Dan river, Virginia.
11	dislocata (new?)	Dan river, Virginia.
11	(<i>Anculosa</i>) <i>prærosa</i> Say.	Ohio.
11	(<i>A.</i>) <i>subcarinata</i> .	Susquehanna.
11	conica Say.	Ohio.
11	Jo fusiformis Lea.	Virginia.
	<i>Fusus fluviatilis</i> .	
11	Pyrena scalariformis Say.	East Florida.

Page.	Name.	Locality.
11	Valvata tricarinata.	New York canal.
11	Paludina vivipara?	St. John's riv. E. Florida.
12	<i>decisa Say.</i>	Maine, South Carolina.
12	<i>subcarinata.</i>	Schuylkill.
12	<i>ponderosa Say.</i>	Ohio.
12	<i>maxima (new?)</i>	French Broad river.
12	<i>intertexta Say.</i>	So. Carolina (very rare).
12	<i>rudis (new?)</i>	Dan river, Virginia.
12	<i>nitida (new?)</i>	Dan river, Virginia.
12	<i>altalis (new?)</i>	Santee canal.
12	Nerita peloronta Lam.	East Florida.
12	Natica heros Say.	Massachusetts.
12	<i>duplicata Say.</i>	South Carolina.
12	Sigaretus perspectivus Say.	South Carolina.
13	Tornatella bidentata Say.	South Carolina.
13	Scalaria clathrus Say (var. b).	South Carolina.
	<i>angulata Say (var.)</i>	
13	<i>lineata Say.</i>	South Carolina.
13	<i>multistriata Say.</i>	South Carolina.
13	Turbo littoreus Lam.	United States.
14	Phasianella sulcata Lam.	South Carolina.
14	<i>angulifera Lam.</i>	East Florida.
14	Cerithium dislocatum Say.	South Carolina.
14	<i>concavum? Say.</i>	South Carolina.
14	<i>spiratum (new?)</i>	South Carolina.
14	Cancellaria reticulata Lam.	South Carolina.
14	Fasciolaria tulipa Lam.	South Carolina.
14	<i>distans Lam.</i>	South Carolina.
14	<i>trapezium Lam.</i>	South Carolina.
14	Fusus Islandicus Lam.	Maine.
14	<i>corona Lam.</i>	East Florida.
14	<i>cinereus Say.</i>	South Carolina.
14	<i>decemcostatus.</i>	Maine.
14	Pyrula canaliculata Lam.	South Carolina.
14	<i>carica Lam.</i>	South Carolina.
14	<i>perversa.</i>	South Carolina.
15	<i>reticulata? Lam.</i>	East Florida.
15	<i>(Fulgur pyruloides) Say.</i>	South Carolina.
15	Ranella caudata Say.	South Carolina.
15	Murex asperrimus? Lam.	South Carolina.
15	Strombus accipitrinus Lam. (var?)	East Florida.
15	<i>pyrulatus Lam.</i>	Key West.
16	Purpura lapillus Lam.	Maine.
16	Dolium galea Lam. (var.)	South Carolina.
17	Buccinum undatum (var.)	Maine.

Page.	Name.	Locality.
17	<i>Nassa trivittata</i> Say.	South Carolina.
17	<i>obsoleta</i> Say.	South Carolina.
17	<i>vibex</i> Say.	South Carolina.
17	<i>Colombella avara</i> Say.	South Carolina.
18	<i>Volvaria canaliculata</i> Say.	South Carolina.
18	<i>Ovula gibbosa</i> Lam.	East Florida.
18	<i>acicularis</i> Lam.	South Carolina.
18	<i>Cypræa cervina</i> Lam.	East Florida.
19	<i>Oliva sayana</i> .	South Carolina.
	<i>O. litterata</i> Say.	
19	<i>Zonalis</i> Wood.	Mexico.
19	<i>tenebrosa</i> Wood.	Mexico.
19	<i>mutica</i> Say.	South Carolina, Cuba.
19	<i>Conus mus</i> Lam.	East Florida.
19	<i>Spirula Peronii</i> Lam.	South Carolina.
20	<i>Argonauta argo</i> Lam.	East Florida.

Kirtland.—Observations on the Sexual Characters of the Animals belonging to Lamark's Family of Naiades: by JARED P. KIRTLAND, M. D. (In American Journal of Science, vol. xxvi, No. 1, O. S., pp. 117-120; with outline figures. Date of title-page, July, 1834.)

Page.

- 119 *Unio formus* Lea, is male of *Unio triangularis* Barnes.
 ridibundus Say, is female of *U. sulcatus* Lea.

Outline figures are given of male and female of

<i>Unio ventricosus.</i>	<i>Unio ochraceus.</i>
<i>nasutus.</i>	<i>siliquoideus.</i>
<i>rectus.</i>	

Totten.—Description of some new Shells belonging to the coast of New England: by Jos. G. TOTTEN. (In American Journal of Science, vol. xxvi, No. 2, O. S.; one plate. Date of title-page, July, 1834.)

Page.	Fig.	Name.	Locality.
366	1, h, i	<i>Solemya borealis</i> Totten.	Rhode Island.
366	1, k	<i>volum</i> Say	
367	2	<i>Venus gemma</i> Totten.	Provincetown, Newport.
367	3	<i>Modiola glandula</i> Totten.	Provincetown.
368	4	<i>Actæon trifidus</i> Totten.	Rhode Island.

Page.	Fig.		
338	5	Turbo inflatus <i>Totten.</i>	Plymouth.
369	6	<i>minutus</i> <i>Totten.</i>	Mass., Rhode Island.
369	7	Pasithea nigra <i>Totten.</i>	Rhode Island.

Rogers.—Analysis of Shells (recent Oyster): by WILLIAM B. ROGERS, Prof. of Chem. and Nat. Phil. in William and Mary College, Va. [From same as last, p. 361.]

Conrad.—Description of some New Species of Fresh-water Shells from Alabama, Tennessee, &c. : by TIMOTHY A. CONRAD, Member of the Acad. Nat. Sci. of Philadelphia. (Am. Journ. Sci. and Art. vol. xxv, No. 2, O. S. Date of title, Jan. 1834.)

Page.	Pl.	Fig.	Name.	Locality.
338	i	2	Unio cœlatus <i>Conrad.</i>	Elk & Flint rivs., Tenn.
338	i	3	<i>perovatus</i> <i>Conrad.</i>	Prairie creek, Marengo Co., Ala.
339	i	4	<i>lienosus</i> <i>Conrad.</i>	South Alabama.
339			<i>rubiginosus</i> <i>Lea</i> (no des.)	South Alabama.
339	i	6	<i>stramineus</i> <i>Conrad.</i>	South Alabama.
340	i	8	<i>arcus</i> <i>Conrad.</i>	Alabama river.
340	i	9	<i>arctatus</i> <i>Conrad.</i>	Bl. Warrior & Ala. rivs.
341	i	10	Alasmodonta radiata <i>Conrad.</i>	South Alabama.
341	i	12	Anodonta subvexa <i>Conrad.</i>	Black Warrior river.
341	i	11	<i>declivis</i> <i>Conrad.</i>	Flint river, Morgan Co. Ala.
342	i	5	Cycias staminea <i>Conrad.</i>	South Alabama.
342	i	13	Melania olivula <i>Conrad.</i>	Alabama river.
342	i	14	<i>prasinata</i> <i>Conrad.</i>	Alabama river.
342	i	15	Anculosa picta <i>Conrad.</i>	Alabama river.
343	i	3	Unio subtentus <i>Say</i> var.	Tennessee and Elk rivs.
343	i	7	<i>mytilloides</i> <i>Raf.</i>	Alabama river.
343			Planorbis antrosus <i>Conrad.</i>	Randon's creek, Claiborne, Ala.
343			Melania congesta <i>Conrad.</i>	Randon's creek, do.
343			Physa pomilia <i>Conrad.</i>	Randon's creek, do.

Conrad.—New Fresh-water Shells of the United States, with colored illustrations, and a Monograph of the genus *Anculotus* of Say; also, a Synopsis of the American Naïades: by T. A. CONRAD, Memb. Acad. Nat. Sci. Philadelphia. Philadelphia, 1834.

In the Introduction are remarks on the following species, their synonymy, geographical distribution, &c.:—

Page.		Page.	
7	<i>Unio cardium</i> .	12	<i>Anculotus tæniatus</i> .
7	<i>inflatus</i> .	14	<i>Unio decisis</i> .
7	<i>alatus</i> .	14	<i>trapezoides</i> .
7	<i>cariosus</i> .	14	<i>Alabamensis</i> .
7	<i>Alasmodonta marginata</i> .	14	<i>arctatus</i> .
8	<i>Unio purpureus</i> .	15	<i>Rangia cyrenoides</i> .
8	<i>declivis</i> .	17	<i>Unio rectus</i> .
8	<i>parvus</i> .	17	<i>acutissimus</i> .
9	<i>ater</i> .	17	<i>teres</i> .
9	<i>torsus</i> .	17	<i>plicatus</i> .
9	<i>nasutus</i> .	17	<i>reflexus</i> .
10	<i>reflexus</i> .	17	<i>verrucosus</i> .
10	<i>cornutus</i> .	17	<i>undatus</i> .
10	<i>verrucosus</i> .	17	<i>interruptus</i> .
10	<i>tuberculatus</i> .	17	<i>stapes</i> .
10	<i>declivis</i> .	17	<i>arcus</i> .
10	<i>flavus</i> .	17	<i>acutissimus</i> .
10	<i>rubiginosus</i> .	17	<i>decisis</i> .
10	<i>stramineus</i> .	17	<i>scalenius</i> .
10	<i>perovatus</i> .	17	<i>Alabamensis</i> .
11	<i>flavus</i> .	18	<i>asper</i> .
11	<i>teres</i> .	18	<i>apiculatus</i> .
11	<i>cariosus</i> .	18	<i>arctatus</i> .
12	<i>anodontoides</i> .	18	<i>glans</i> .
12	<i>fragilis</i> .	18	<i>tæniatus</i> .
12	<i>gracilis</i> .	18	<i>maculatus</i> .
12	<i>Fusus fluvialis</i> .	18	<i>subtentus</i> .
12	<i>Io fusiformis</i> .	18	<i>cælatus</i> .
12	<i>Paludina ponderosa</i> .	18	<i>trabalis</i> .
12	<i>Unio niger</i> .	18	<i>alatus</i> .
12	<i>reflexus</i> .	18	<i>Anodonta declivis</i> .
12	<i>triangularis</i> .	22	<i>Valvata arenifera</i> .
12	<i>Anculotus pictus</i> .		

Page.	Pl.	Fig.	Name.	Locality.
25	i		<i>Unio Poulsoni</i> Conrad.	Black Warrior riv., Ala.
26	iv	2	<i>tæniatus</i> Conrad.	Flint river, Morgan Co.
27	iii	5	<i>trabalis</i> Conrad.	[Ala.
28	iii	7	<i>nebulosus</i> Conrad.	Black Warrior riv., Ala.
28	iii	3	<i>cor</i> Conrad.	Elk & Flint rivs., Ala.
29	iii	4	<i>cælatus</i> Conrad.	Tenn., Elk & Flint rivs.
30	iv	4	<i>maculatus</i> Conrad.	Tenn., Elk & Flint rivs.
31	iv	3	<i>vibex</i> Conrad.	Black Warrior riv., Ala.

Page.	Pl.	Fig.	Name.	Locality.
32	iv	1	Greenii <i>Conrad.</i>	Black Warrior riv., Ala.
33	v	1	penitus <i>Conrad.</i>	Alabama river.
34	v	2	Masoni <i>Conrad.</i>	Savannah river.
35	v	3	delumbis <i>Conrad.</i>	Cooper river, S. C.
36	v	4	arctatus <i>Conrad.</i>	Alabama & Black Warrior river.
37	vi	1	pectorosus <i>Conrad.</i>	Elk river.
38	vi	2	rubellus <i>Conrad.</i>	Black Warrior river.
39	vi	3	furvus <i>Conrad.</i>	Black Warrior river.
39	vi	4	Raveneli <i>Conrad.</i>	Cooper river & Wateree Canal, S. C.
41	vi	5	icterinus <i>Conrad.</i>	Savannah river.
42	vii	1	tenebrosus <i>Conrad.</i>	Rappahannock, Va., & South Carolina.
43	ii	1	altilis <i>Conrad.</i>	Alabama.
43	ii	2	perovalis <i>Conrad.</i>	Alabama river.
44	iii	1	prasinus <i>Conrad.</i>	Fox River.
45	iii	2	infucatus <i>Conrad.</i>	Flint River.
46	iii	6	oviformis <i>Conrad.</i>	Tennessee.
47	ii	3	perovatus <i>Conrad.</i>	Greene Co., Ala.
47	vii	2	Anodonta teres <i>Conrad.</i>	Santee Canal, S. C.
48	viii	3	Paludina genicula <i>Conrad.</i>	Flint river, Ga.
48	viii	4	magnifica <i>Conrad.</i>	Ala. river (Claiborne).
49	iv	6	Melania excurata <i>Conrad.</i>	Tenn. riv. at Florence.
50	viii	1	Hydeii <i>Conrad.</i>	Black Warrior riv., Ala.
51	viii	2	annulifera <i>Conrad.</i>	Black Warrior riv., Ala.
51	iv	5	salebrosa <i>Conrad.</i>	Tenn. & Holston rivers.
52	viii	5	pyrenella <i>Conrad.</i>	North Alabama.
52	viii	6	bitæniata <i>Conrad.</i>	Black Warrior river.
53	viii	7	comma <i>Conrad.</i>	Black Warrior river.
54	viii	8	lima <i>Conrad.</i>	Elk river, Ala.
54	iv	7	alveare <i>Conrad.</i>	Elk river, Ala.
55	viii	9	nassula <i>Conrad.</i>	Tuscumbia, Ala.
55	viii	10	cylindracea <i>Conrad.</i>	Tombeckbee river.
56	viii	11	trochiformis <i>Conrad.</i>	North Alabama.
57	viii	12	vestita <i>Conrad.</i>	Greene Co., Ala.
57			Ancylus filusus <i>Conrad.</i>	Black Warrior river.

The following are mentioned by name only:—

Page.	Name.	Locality.
31	Unio undatus <i>Barnes.</i>	Alabama.
39	congaræus <i>Lea.</i>	Savannah river.
40	nasutus.	Santee canal and Augusta.
40	angustatus <i>Lea.</i>	Santee canal and Augusta.
40	ochraceus <i>Say?</i>	Santee canal & Rappahannock.

Page.	Name.	Locality.
49	<i>Unio congaræus</i> Lea.	Santee canal.
40	<i>delumbis</i> Conr.	Santee canal.
41	<i>purpureus</i> var.?	Santee canal.
43	<i>cariosus</i> Say.	Rappahannock.

ANCULOTUS.

Page.	Pl.	Fig.	Name.	Locality.
59	viii	13	<i>Anculotus prærorsus</i> Say.	Ohio and Tenn. rivers.
60	viii	14	<i>subglobosus</i> Say.	Holston and Tenn. rivs.
60	viii	15	<i>angulatus</i> Conrad.	Flint river, Morgan Co. Ala.
61	viii	18	<i>plicatus</i> Conrad.	Tenn. river in Ala.
61	viii	16	<i>monodontoides</i> Conrad.	Virginia.
62			<i>pictus</i> Conrad.	Alabama river.
62			<i>pumilus</i> Conrad.	Black Warrior riv. and Bayou Teche.
63			<i>tænolatus</i> Conrad.	Claiborne, Ala.
64	viii	19	<i>melanoides</i> Conrad.	North Alabama
64	viii	17	<i>nigrescens</i> Conrad.	Maryland.

SYNOPSIS OF NAIADES.

Page.		Page.	
67	<i>Unio abruptus</i> Say.	68	<i>Unio capax</i> Green.
	<i>U. cyclops</i> Raf.	68	<i>cælatus</i> Conr.
	<i>calendis</i> Raf.	68	<i>camptodon</i> Say.
67	<i>arctatus</i> Conr.	68	<i>cylindricus</i> Say.
67	<i>arcus</i> Conr.		<i>U. naviformis</i> Lam.
67	<i>apiculatus</i> Say.		<i>solenoides</i> Raf.
67	<i>asper</i> Lea.	68	<i>cor</i> Conr.
67	<i>acutissimus</i> Lea.	68	<i>congaræus</i> Lea.
67	<i>angustatus</i> Lea.	68	<i>cyphia</i> Raf.
67	<i>ater</i> Lea.		<i>U. Aesopus</i> Green.
	<i>U. lugubris</i> Say.		<i>cicatricosus</i> Say.
67	<i>alatus</i> Say.		<i>varicosus</i> Lea.
	<i>U. megaloptera</i> Raf.	68	<i>costatus</i> Raf.
	<i>Symphynota alata</i> Lea.		<i>U. undulatus</i> Barnes.
67	<i>Alabamensis</i> Conr.	68	<i>castaneus</i> Lea.
	<i>Symphynota inflata</i> Lea.	68	<i>cariosus</i> Say.
68	<i>altilis</i> Conr.		<i>U. crassus</i> Say.
68	<i>bullatus</i> .		<i>luteola</i> Lam.
	<i>U. pustulosus</i> Lea.		<i>cariosa</i> Lam.
	<i>nodulosa</i> Wood.		<i>ellipticus?</i> Barnes.
68	<i>cardium</i> Raf.	68	<i>compressus</i> .
	<i>U. ventricosus</i> Barnes.		<i>Symphy. compressa</i> Lea.
	<i>occidens</i> Lea.	68	<i>cordatus</i> Raf.
	<i>suboratus</i> Lea.		<i>U. oborata</i> Raf.

Page.		Page.	
68	Unio declivis Say.	70	Unio lapillus Say.
68	decisus Lea.		<i>U. fabalis</i> Lea.
68	dilatatus Raf.	70	leptodon Raf.
	<i>U. cuprea</i> Raf. (young).		<i>Symphy. tenuissima</i> Lea.
	<i>atroviolacea</i> Raf.		<i>An. purpurascens</i> Swains.
	<i>gibbosus</i> Barnes.	70	lævigatus Raf.
69	delumbis Contr.		<i>U. lens</i> Lea.
69	ebenus Lea.	70	lanceolatus Lea.
69	fragilis Raf.	70	lævissimus .
	<i>U. gracilis</i> Barnes.		<i>Anodonta Ohicensis</i> Raf.
	<i>Symphynota gracilis</i> Lea.		<i>Symphy. laxissima</i> Lea.
	<i>S. fragilis</i> Swainson.	70	latus .
69	flavus Raf.		<i>Anodonta lata</i> Raf.
	<i>U. rubiginosus</i> Lea.		<i>U. dehiscens</i> Say.
69	fasciolaris Raf.		<i>oriens</i> Lea.
	<i>U. sinuatus</i> Raf. (very old)	70	monodonta Say.
	<i>phascolus</i> Hildreth.		<i>U. soleniformis</i> Lea.
	<i>mucronatus</i> Barnes	70	multiradiatus Lea.
	<i>planulatus</i> Lea.	70	metanever Raf.
	<i>bicolor?</i> Raf.		<i>U. nodosus</i> Barnes.
69	flexuosus Raf.	70	metallicus Say.
69	foliatus Hildreth.		<i>U. cuprinus</i> Lea.
69	fasciatus Raf.	70	Masoni Contr.
	<i>U. carinatus</i> Barnes.	70	maculatus Contr.
69	furvus Contr.	70	nervosa Raf.
69	glans Lea.		<i>U. zig-zag?</i> Lea.
69	glebulus Say.	70	nasutus Say.
69	Greenii Contr.		<i>U. rostratus</i> Val.
69	heterodon Lea.	70	niger Raf.
69	heros Say.		<i>U. cuneatus</i> Barnes.
	<i>U. multiplicatus</i> Lea.	70	nodulatus Raf.
69	interruptus Raf.		<i>U. pustulatus</i> Lea.
	<i>U. brevidens</i> Lea.		<i>verrucosus</i> Val.
69	icterinus Contr.	70	nexus Say.
69	iris Lea.		<i>U. arcaformis</i> Lea.
69	inflatus Barnes.	70	nebulosus Contr.
	<i>U. siliquoides</i> Barnes.	70	ovatus Say.
	<i>vittatus?</i> Raf.		<i>U. ovata</i> Raf.
70	infucatus Contr.	70	obesus Lea.
70	lienosus Contr.	70	olivarius Raf.
70	lineolatus Raf.		<i>U. ellipsis</i> Lea.
	<i>U. depressa</i> Raf.	70	ochraceus Say.
	<i>ellipsaria</i> Raf.	70	obliquatus Raf.
	<i>securis</i> Lea.		<i>U. sulcatus</i> Lea.

Page.

- 70 **Unio oviformis** *Conr.*
 70 **penitus** *Conr.*
 70 **parvus** *Barnes.*
 71 **plicatus** *Say.*
 U. peruvianus *Lam.*
 71 **Poulsoni** *Conr.*
 71 **pileus** *Lea.*
 71 **perovalis** *Conr.*
 71 **purpureus** *Say.*
 U. purpurascens *Lam.*
 coarctata *Lam.*
 carinifera *Lam.*
 complanatus *Lea.*
 aurata *Raf.*
 71 **pectorosus** *Conr.*
 71 **planus** *Barnes.*
 71 **personatus** *Say.*
 U. subrotundus *Say.*
 71 **prasinus** *Conr.*
 71 **quadrlus** *Raf.*
 U. rugosus *Barnes.*
 lachrymosus *Lea.*
 asprinus *Lea.*
 71 **rectus** *Lam.*
 U. latissima *Raf.*
 prælongus *Barnes.*
 71 **rubellus** *Conr.*
 71 **Raveneli** *Conr.*
 71 **reflexus** *Raf.*
 U. cornutus *Barnes.*
 71 **radiatus** *Lam.*
 Mya radiata *Gmel.*
 U. Virginiana *Lam.*
 71 **ridibundus** *Say.*
 71 **retusus** *Raf.*
 71 **stapes** *Lea.*
 71 **stramineus** *Conr.*
 71 **subtentus** *Say.*
 71 **stegarius** *Raf.*
 U. irroratus *Lea.*
 71 **subrotundus** *Raf.*
 U. pusilla *Raf.*
 striata *Raf.*
 circulus *Lea.*
 orbiculatus *Hildreth.*

Page.

- 71 **Unio scalenius** *Raf.*
 U. cuneata *Raf.*
 patulus *Lea.*
 72 **subrostratus** *Say.*
 72 **tæniatus** *Conr.*
 72 **torsus** *Raf.*
 72 **trapezoides** *Lea.*
 U. interruptus *Say.*
 72 **teres** *Raf.*
 U. anodontoides *Lea.*
 72 **triqueter** *Raf.*
 U. triangularis *Barnes.*
 formosus *Lea.*
 cuneatus *Swainson.*
 72 **truncatus** *Raf.*
 U. donaciformis *Lea.*
 elegans *Lea.*
 72 **tuberculatus** *Raf.*
 U. verrucosus *Barnes.*
 tuberculatus *Val.*
 72 **triangularis** *Raf.*
 U. lateralis *Raf.*
 sintoxia *Raf.*
 pachostea *Raf.*
 mytiloides *Raf.*
 rubra *Raf.*
 pyramidatus *Lea.*
 72 **torulosus** *Raf.*
 U. gibbosa *Raf.*
 perplexus *Lea.*
 72 **tenebrosus** *Conr.*
 72 **trabalis** *Conr.*
 72 **undatus** *Barnes.*
 U. trigonus *Lea.*
 72 **verrucosus** *Raf.*
 U. tuberculatus *Barnes.*
 72 **vibex** *Conr.*
 72 **velum** *Say.*
 72 **viridis** *Raf.*
 72 **Alasmodonta costata** *Raf.*
 Alas. rugosa *Barnes.*
 72 **complanata** *Barnes.*
 Symphy. complanata *Lea.*
 72 **confragosa** *Say.*

Page.		Page.	
72	Alasmodonta edentula Say.	73	Anodonta cataracta Say.
72	marginata Say.		<i>An. marginata</i> Say.
	<i>Alas. scriptum</i> Raf.	73	declivis Conr.
72	margaritifera .	73	grandis Say.
	<i>Unio margaritifera</i> Lam.	73	implicata Say.
	<i>Alas. arcuata</i> Barnes.	73	imbecilis Say.
73	radiata Conr.	73	inflata Say.
73	sculptilis Say.	73	lugubris Say.
73	truncata Say.	73	subvexa Conr.
	<i>Unio calceolus</i> Lea.	73	suborbiculata Say.
73	undulata Say.	73	undulata Say.
			<i>An. rugosa</i> Swainson.
73	Unio declivis Say, quoted from Florida, is said to be another species.		

(Appendix to same.)

Page.	Pl.	Fig.	Name.	Locality
4	ix	1	Unio viridis Raf. [subviridis Conr.]	Penn., Kentucky river.
5	ix	2	complanatus var. subinflatus .	South Carolina.
5	ix	3	Melania formosa Conrad.	North Alabama.
6	ix	4	Melania bella Conrad.	North Alabama.
6	ix	5	dilatata Conrad.	Monroe Co., Va.
7	ix	6	semicostata Conrad.	North Alabama.
7	ix	7	Rogersii Conrad.	
8	ix	8	Planorbis engonatus Conrad.	Albany.

Additions to Synopsis.

Page.		Page.	
1	Anodonta cataracta Say.	1	Anodonta marginata Say.
	<i>Mytilus fluviatilis</i> Gmel.		<i>Anod. pennsylvanica</i> Lam.
	<i>Anod. fluviatilis</i> Bosc.	1	radiata Conr.
	<i>Mytilus illitus</i> Soland.		<i>Alas. radiata</i> Conr.
1	edentula Ferrussac.	2	Alasmodonta calceolus .
	<i>Alas. edentula</i> Say.		<i>Unio calceolus</i> Lea.
	<i>Anod. Ferrussaciana</i> Lea.		<i>Alas. marginata</i> Say.
1	grandis Say.	2	marginata Say.
	<i>Anod. declivis</i> Conr.		
	<i>plana</i> Lea.	2	Unio acutissimus Lea.
1	imbecilis Say.		<i>U. Conradicus</i> Lea.
	<i>Symphynota incerta</i> Lea.	2	apiculatus Say.
	<i>Anod. incerta</i> Fer.		<i>U. asper</i> Lea.
1	lata Raf., Fer.	2	Carolinianus Bosc., Fer.
	<i>Unio dehiscens</i> Say.		<i>U. obesus</i> Lea.
	<i>oriens</i> Lea.	2	capax Green.
	<i>latus</i> Conr.		<i>Symphynota globosa</i> Lea.
	<i>Odatelia radiata</i> Raf.		

Page.		Page.	
2	Unio clava Lam., Fer. <i>U. scaleni</i> Raf. <i>modioliformis</i> Say.	2	Unio pachostea Raf., Fer. <i>U. Cooperianus</i> Lea.
2	complanatus Sol., Lea, <i>U. purpureus</i> Say. [Fer.	3	pectorosus Conr. <i>U. perdic</i> Lea.
2	cordatus Raf. <i>U. undatus</i> Barnes. <i>trigonus</i> Lea.	3	personatus Say. <i>U. capillaris</i> Lea.
2	decisus Lea. var. <i>Taitianus</i> Lea.	3	purpuratus Lam. <i>U. ventricosus</i> Soland. <i>ater</i> Lea. <i>lugubris</i> Say.
2	declivis Say. <i>U. geometricus</i> Lea.	3	trabalis Conr. <i>U. Troostensis</i> Lea.
2	delumbis Conr. <i>U. modioliformis</i> Lea.	3	ruber Raf. <i>U. pyramidalus</i> Lea.
2	donaciformis Lea.	3	Raveneli Conr. <i>U. confertus</i> Lea. <i>fulvus?</i> Lea (young).
2	ligamentina Lam., Fer. <i>U. ellipsaria</i> Raf.	3	retusus Lam., Lea. <i>U. torsus</i> Raf.
2	lienosus Conr. <i>U. Nashvillianus</i> Lea.	3	suborbiculatus Lam., Lea. <i>U. rotundatus</i> Lam. <i>glebulus</i> Say. <i>subglobosus</i> Lea.
2	metanever Raf. <i>U. retusus</i> Raf. (very old).	3	subrostratus Say. <i>U. iris</i> Lea.
2	nodulatus Raf. <i>U. pustulatus</i> Lea. <i>prasimus</i> Conr. <i>Schoolcraftensis</i> Lea.	3	tetralasmus Say.
2	obliquus Lam. <i>U. oboralis</i> Raf. <i>ebenus</i> Lea.	3	truncatus Raf. <i>U. elegans</i> Lea.

Conrad.—Monography of the Family Unionidæ, or Naiades of Lamarck, of North America: by T. A. CONRAD, Memb. Phila. Acad. Nat. Sci., Hon. Memb. Geol. Soc. Pa. Philadelphia.

No. I.—December, 1835.

Page.	Pl.	Fig.	Name.	Locality.
3	i		Unio fasciatus Raf. <i>U. carinatus</i> Barnes.	Scioto river.
4	ii		ovatus Say, var. ornatus .	South Alabama.
5	iii	1	clava Lam. <i>U. scaleni</i> Raf. <i>modioliformis</i> Say.	Western rivers.
6	iii	2	decisus Lea. <i>U. Taitianus</i> Lea.	Alabama.

Page.	Pl.	Fig.	Name.	Locality.
7	iv	1	Unio reflexus Raf. <i>U. cornutus</i> Barnes.	Alabama, Indiana.
8	iv	2	flexuosus Raf. <i>U. foliatus</i> Hildr.	Western rivers.
9	v	1	Phillipsii Conr.	Wabash river.
10	v	2	metanevrus Raf. <i>U. nodosus</i> Barnes.	West. & South. rivs.
11	vi	1	Mortoni Conr.	Bayou Teche, La.
12	vi	2	fragosus Conr.	Scioto river.

No. II.—January, 1836.

17	vii		Unio costatus Raf. <i>U. undulatus</i> Barnes.	Ala., & Tenn. rivers.
19	viii		retusus Lam. <i>U. torsi</i> Raf.	Western rivers.
20	ix	1	parvus Barnes.	West, N. W. Ter., La.
21	ix	2	glans Lea.	Ohio, Tenn., Ala.
22	x	1	siliquoideus Barnes. <i>U. inflatus</i> Barnes.	Western rivers.
24	x	2	radiatus Lam. <i>U. Virginiana</i> Lam. <i>oblongata</i> Wood. <i>Mya radiata</i> Spengl. Gmel.	Va., Wise., N. Y.

No. III.—February, 1836.

25	xi	1	Unio pectorosus Conr. <i>U. perdix</i> Lea.	Tennessee, Alabama.
26	xi	2	fasciolus Raf. <i>U. multiradiatus</i> Lea.	
27	xii	1	congaræus Lea.	S. Carolina, Georgia.
28	xii	2	Masoni Conr.	Savannah, Georgia.
29	xiii	1	coccineus Hildreth.	Mahoning riv. Pa.
30	xiii	2	catillus Conr.	Western rivers.
31	xiv	1	productus Conr.	Savannah river.
32	xiv	2	lanceolatus Lea.	N. Carolina, Virginia.

No. IV.—March, 1836.

33	xv		Unio rectus Lam. <i>U. latissima</i> Raf. <i>prælongus</i> Barn.	Western rivs., Ala.
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Page.	Pl.	Fig.	Name.	Locality.
34	xvi		Unio crassus Say.	Ohio, Indiana, Ill.
			<i>U. crassidens</i> var. c. Lam.	
			<i>ligamentina</i> Lam.	
			<i>ellipticus</i> Barnes.	
			<i>suborbiculatus</i> Hild.	
			<i>abruptus</i> Say.	
			<i>cyclops</i> Raf.	
35	xvii	1	viridis Raf.	Schuylkill riv., Pa., Ky.
37	xvii	2	ochraceus Say.	Pennsylvania, Va.
			<i>Symphonata ochracea</i> Lea.	
			var. a. <i>Mytilus fluviatilis</i> Gmel.	
33	xviii	1 ¹	nasutus Say.	Fla. to Eastern Sts.
			<i>U. rostrata</i> Val.	
39	xviii	2	icterinus Conr.	Savannah river.
40	xix		cariosus Say.	Virginia, Middle Sts.
			<i>U. luteola</i> Lam.	
			<i>oratus</i> Val.	

No. V.—June, 1836.

41	xx		Unio mytiloides Raf.	West. waters, Ala.
			<i>U. rubra</i> Raf.	
			<i>pyramidatus</i> Lea.	
			<i>cardiacea</i> Guérin.	
42	xxi		dilatatus Raf.	Ohio, Miss., Mo., and
			<i>U. nasutus</i> Lam.	Tenn. rivers, Va.,
			<i>gibbosus</i> Barnes.	N. C.
43	xxii		tuberculatus Raf.	Wisc., L. Erie, Tenn.
			<i>U. verrucosus</i> Barnes.	river.
			<i>tuberculosa</i> Val.	
45	xxiii	1	declivis Say = U. Sayanus	
			Ward of errata. (Wrapper	
			of No. xi. p. 4.)	Ala., La., Ohio.
			<i>U. geometricus</i> Lea.	
46	xxiii	2	Blandingianus Lea.	East Florida.
47	xxiv		personatus Say.	Wabash and Cumber-
			<i>U. capillaris</i> Lea.	land rivers.
48	xxv		cordatus Raf.	Ohio & Tenn. rivers.
			Anodonta virgata Conr. (p. 4 of	
			wrapper.)	Clarke Co., Ohio.

No. VI.—July, 1836

49	xxvi		Unio niger Raf.	Alabama, Michigan.
			<i>U. crassidens</i> var. b. Lam.	
			<i>cuneatus</i> Barnes.	

¹ Plate xviii, Fig. 1, represents *U. Fisherianus* Lea, v. wrapper of No. XI, p. 4.

Page.	Pl.	Fig.	Name.	Locality.
50	xxvii	1	Unio gibbosus Raf. <i>U. torulosus</i> Raf. <i>perplexus</i> Lea.	Wabash, Scioto, and Tenn. rivers.
51	xxvii	2	gibbosus var. perobliquus .	Wab'sh, Ind., Detroit.
52	xxviii		teres Raf. <i>U. anodontoides</i> Lea.	West. rivs., La., Ala.
53	xxix	1	Sageri Conr.	Detroit river.
54	xxix	2	lapillus Say. <i>U. fabalis</i> Lea.	Michigan, Ohio river.
55	xxx		fragilis Raf. <i>U. gracilis</i> Barnes. <i>Symphynota gracilis</i> Lea.	Fox and Detroit, Ala.
56	xxxi		alatus Say. <i>Metaptera megaptera</i> Raf. <i>Symp. alata</i> Lea.	Wisc., Mich., Ala., N. W. Terr., Fox riv.

No. VII.—December, 1836.

57	xxxii		Unio inflatus Lea. <i>Symphynota inflata</i> Lea. <i>U. Alabamensis</i> Conr.	Alabama.
58	xxxiii		leptodon Raf. <i>U. planus</i> Barnes. <i>Anodonta purpurescens</i> Sw. <i>Symphynota tenuissima</i> Lea.	Wisc., Ala., Scioto rivers.
60	xxxiv	1	ellipsiformis Conr.	Michigan.
60	xxxiv	2	lienosus Conr. <i>U. Nashvillianus</i> Lea.	Greene Co., Alabama.
62	xxxv	1	stapes Lea.	Alabama.
63	xxxv	2	intermedius Conr.	Nolachucky riv., Ten.
64	xxxvi	1	occidentalis Conr.	Currant river, Ark.

No. VIII.—February, 1837.

65	xxxvi	2	Unio collinus Conr.	North river, Va.
66	xxxvii	1	Sowerbianus Lea. (<i>U. pilcus</i> Conr., note on p. 69, N. F. W. S.)	Cumberland river, Tenn., Elk riv., Ala.
67	xxxvii	2	politus Say. <i>U. subrotundus</i> Lea.	
68	xxxviii	1	nexus Say. <i>U. arcaformis</i> Lea.	Cumberland river, Tenn.
69	xxxviii	2	Greenii Conr.	Bl. Warrior riv., Ala.
70	xxxix		Shepardianus Lea.	Altamaha river, Ga.
71	xl	1	compressus Desh. <i>Symphynota depressa</i> Lea.	Ohio, New York.

Page	Pl.	Fig.	Name.	Locality.
72	xl	2	Unio capsæformis Lea. (On p. 4 of wrapper.)	Tennessee, Alabama.
			Anodonta carinifera Conr.	Below Louisville.
			Unio gibbosus var. perobliquus = U. perobliquus Conr.	

No. IX.—March, 1837.

73	xli	1	Unio subplanus Conr.	Lexington, Va.
74	xli	2	flavus Raf. <i>U. rubiginosus</i> Lea.	Alabama, Kentucky.
75	xlii		capax Green. <i>Symph. globosa</i> Lea.	Falls of St. Anthony, Bayou Teche, Ohio river.
76	xliii	1	rudis Conr. <i>U. Ravenelianus</i> Lea.	North Carolina, Ala.
77	xliii	2	obliquus Lam. <i>U. ebenus</i> Lea.	Ohio, Alabama.
78	xliv	1	apiculatus Say. <i>U. asper</i> Lea.	Alabama riv., Bayou Teche.
79	xliv	2	prasinus Conr. <i>U. Schoolcraftensis</i> Lea.	Scioto river, Indiana.
80	xlv	1	nodulatus Raf. <i>U. pustulatus</i> Lea.	Ohio river, &c.
			Anodonta carinifera Conr. (p. 4 of wrapper.)	Below Louisville.

No. X.—May, 1838.

82	xlvi	2	Unio bullatus Raf. <i>U. verrucosus albus</i> Hildr. <i>pustulosus</i> Lea.	Alabama.
83	xlvi	1	stegarius Raf. <i>U. irroratus</i> Lea.	Ohio, Indiana, Tenn.
84	xlvi	2	dromas Lea.	Tennessee, Alabama.
85	xlvi	1	subtentus Say.	Tenn., Alabama, Va.
86	xlvi	2	acutissimus Lea.	Alabama.
87	xlvi	3	Conradius Lea.	Alabama, Tennessee.
88	xlvi		interruptus Raf. <i>U. brevidens</i> Lea.	Alabama, Tennessee.
89	xlix	1, 2	plexus Conr.	Vera Cruz?
90	xlix	3	heterodon Lea.	Schuylkill river, &c.
91	xlix	4	lienosus Conr. var. constrictus = U. constrictus Conr. of err., p. 4 of wrapper, No. 11.	North river, Va.
91	1	1	stramineus Conr.	Greene Co., Ala.

Page.	Pl.	Fig.	Name.	Locality.
92	l	2	Unio patulus Lea.	Tenn., Kentucky.
93	li	1	Hembeli Conr.	New Orleans.

(End of Vol. I.)

No. XI.—November, 1838.

95	lii		Unio cerinus Conr.	Louisiana.
96	liii		latiradiatus Conr.	Tennessee.
			<i>U. interruptus</i> Lea.	
97	liv	1	subinflatus Conr.	Savannah river.
			<i>U. complanatus</i> var. <i>subinflatus</i> Conr.	
98	liv	2	angustatus Lea.	South Carolina.
99	liv	1	excultus Conr.	New Orleans.
100	liv	2	pullus Conr.	N. Carolina, S. Car.
101	lv	1	melinus Conr.	Salina Lake, N. Y.
102	lv	2	Sayanus Conr.	Greene Co., Ala.
			<i>U. Sayii</i> Ward.	
			<i>declivis</i> Conr.	

On page 4 of wrapper, descriptions of **Unio cuneus**, **metastriatus**, **lenis**, North Illinois, **planilateris**, **iridesceus**, **saxeus**. Plate xviii, Fig. 1, is said to be **U. Fisherianus** Lea, and note on **Pleiodon McMurtrii**.

No. XII.—(No date.)

103	lvii	1	Unio planilateris Conr.	Virginia, N. Carolina.
104	lvii	2	metastriatus Conr.	Bl. Warrior riv., Ala.
105	lviii	1	cuneus Conr.	Little Red river, Ark.
106	lviii	2	lenis Conr.	White river, Ill.
107	lix		heros Say.	
			<i>U. undulatus</i> Say, not Barnes.	
			<i>multiplicatus</i> Lea.	
109	lx	1	saxeus Conr.	Claiborne, Ala.
109	lx	3	collinus Conr.	Columbia, S. C.
110	lx	2	trabalis Conr.	

No. XIII.—(No date.)

111	lxi		Unio tetralasmus Say.	Bayou St. John.
112	lxii		quadrulus Raf.	Ohio river, La., &c.
			<i>U. rugosus</i> Barnes.	
			<i>lachrymosus</i> Lea.	
			<i>asperimus</i> Lea.	
113	lxiii		cyphius Raf.	Ohio, &c.
			<i>U. Esopus</i> Green.	

Page.	Pl.	Fig.	Name.	Locality.
113	lxiv		Unio cicatricosus Say. <i>U. varicosus</i> Lea.	Ohio &c.
115			cardisce Say = cordata .	
115			incurvus Say = intorta .	
116	lxv		plicatus Say. <i>U. rariplicatus</i> Lam.	Ohio, Wise.
117	lxvi		cardium Raf. <i>U. ventricosus</i> Barnes. <i>ovatus</i> var. b. Lam. <i>occidens</i> Lea.	

(The work was here discontinued.—W. G. B.)

Conrad.—American Marine Conchology; or descriptions and colored figures of the Shells of the Atlantic Coast of North America: by TIMOTHY A. CONRAD, Member of the Academy of Natural Sciences of Philadelphia. Printed for the author: Philadelphia, 1831. 8vo. 17 colored plates.

Page.	Pl.	Fig.	Name.	Locality.
6	i	1	Pecten Magellanicus Lam. <i>Ostrea magellanica</i> Gmelin.	Maine, Mass.
8	i	2, 3	concentricus Say. <i>P. opercularis</i> D'Avila?	New Jersey, Long Isl. Sound.
10	ii	1	purpuratus Lam. <i>P. dislocatus</i> Say.	Florida, Panama, Chili.
12	ii	2	Pealeii Conr.	Maine.
12	ii	3	ornatus Lam. <i>Ostrea pellucens</i> Gmel.	E. Florida, W. Indies.
14	ii	4	nodosus Gmelin.	E. Florida, Africa, S. Amer., W. Indies.
16	iii	1	Lima glacialis Gmelin. <i>Ostrea scabra</i> Dillwyn. <i>glacialis</i> Gmel.	East Florida, Gulf of Mexico, W. Indies.
17	iii	2	squamosa Lamark. <i>Ostrea lima</i> Linnæus.	East Florida, Gulf of Mexico, Ceylon, Europe, &c.
19	iv	1	Solecurtus fragilis Pulteney. <i>Solen antiquatus</i> Montagu. <i>fragilis</i> Pult. <i>centralis</i> Say. <i>Psammobia taniata</i> Turton.	Rhode Isl., Southern coast, England.
21	iv	2	costatus Say. <i>Solen costatus</i> Say.	Maine, R. I., N. J.

Page.	Pl.	Fig.	Name.	Locality.
22	iv	3	Solecurtus Caribæus Blainville.	N. J., Florida.
			<i>Solen caribæus</i> Lam.	
			<i>Chama angustior</i> Lister.	
27	v	1	Solen ensis Linnæus.	Whole coast.
			<i>S. curvus</i> Lister.	
28	v	2	viridis Say.	N. J., R. I., S'm coast.
30	vi	1	Nucula limatula Say.	R. Island, Virginia.
			<i>N. lævis</i> Say?	
31	vi	2	proxima Say.	R. I., Southern coast.
			<i>N. obliqua</i> Say?	
32	vi	3	acuta Say.	Fossil in Virginia.
34	vii	1	Sanguinolaria fusca Say.	Ga., R. I., N. J., N. Y.
			<i>Psammobia fusca</i> Say.	Va.
35	vii	2	lusoria Say.	N. J., Southern coast.
			<i>Psammobia lusoria</i> Say.	
37	vii	3	Petricola pholadiformis Lamark.	Whole coast to Maine.
			<i>P. fornicata</i> Say.	
39	viii	1	Cardita borealis Conrad.	Massachusetts.
			<i>Venericardia borealis</i> ?	
39	viii	2	incrassata Sowerby.	Florida, E. Indies.
42	ix	1	Mya arenaria Linnæus.	Whole coast, England,
			<i>M. acuta</i> Say.	&c.
			<i>mercenaria</i> Say.	
44	ix	2	Thracia declivis Pennant.	Eastern States, Great
			<i>Mya declivis</i> Pennant.	Britain.
			<i>Ligula pubescens</i> Montagu.	
			<i>Mya convexa</i> Wood.	
			<i>Anatina myalis</i> Lamark.	
			<i>Thracia corpuloides</i> Blainv.?	
46	x	1	Lutraria canaliculata Say.	Virginia to Florida,
			<i>L. Campechensis</i> Wood.	Gulf of Mexico.
47	x	2	lineata Say.	N. Carolina to Florida.
			<i>L. recurva</i> Wood.	
49	xi	1	Pandora trilineata Say	N. J., Southern coast.
51	xi	2	Lyonsia hyalina Conrad.	Long Island Sound,
			<i>Mya hyalina</i> Conrad.	Rhode Island.
			<i>L. Norwegica</i> Auct.?	
53	xi	3	Lepton fabagella Conrad.	Rhode Island.
55	xii		Artemis concentrica Gmelin.	Virginia to Florida &
			<i>Cytherca concentrica</i> Lamark.	Gulf of Mexico.
			<i>Venus concentrica</i> Gmelin.	
56			Rangia (Clathradon Gray MSS.)	
57	xiii		cyrenoides Conrad.	Alabama.
59	xiv	1	Mactra deaurata Turton.	New England.
			<i>M. arcata</i> Conrad.	

Page.	Pl.	Fig.	Name.	Locality.
60	xiv	2	Macra tellinoides Conrad.	Whole coast.
61	xiv	3	fragilis Chemnitz. <i>M. oblonga</i> Say.	S. Carolina, Georgia.
62	xiv	4, 5	lateralis Say.	Gulf of Mex. at Mobile.
63	xiv	6	nucleus Conrad.	New Jersey.
64	xiv	7	solidissima Chemnitz.	New Jersey.
	xv		<i>M. solida</i> var. b, Gmelin. <i>procera</i> Solander. <i>grandis</i> Solander. <i>gigantea</i> Lamark. <i>similis</i> Say.	
The smaller form, south of Virginia, if distinct, may be called <i>M. Raveneli</i> .				
66	xvi		Solemya velum Say.	R. I., Mass., S. C.
			<i>S. borealis</i> Totten.	
68	xvii	1	Iphigenia lævigata Schumacher. <i>Donax lævigata</i> Gmelin. <i>Capsa lævigata</i> Lam.	Florida.
70	xvii	2	Capsa deflorata Linnæus. <i>Venus deflorata</i> Linn. <i>Capsa rugosa</i> Bruguiere. <i>Sanguinolaria rugosa</i> Lamark. <i>Capsula rugosa</i> Schumacher. <i>Psammobia deflorata</i> Turton. <i>Chama diffusior</i> Lister.	Florida.
72	xvii	3	Astarte castanea Say. <i>Venus castanea</i> Say, olim.	N. Jersey, R. Island.

Totten.—Description of some Shells belonging to the Coast of New England: by JOS. G. TOTTEK. No. 2. (From American Journal of Science, O. S., vol. xxviii, No. 2. Date of title-page, July, 1835.)

Page.	Fig.	Name.	Locality.
347	1	Anatina papyratia Say? <i>A. fragilis</i> Totten.	Newport, R. I.
348	2	Astarte castanea Say? <i>A. procera</i> Totten.	Provincetown, Mass.
349	3	Danmoniensis Sowb. <i>Venus Danmoniensis</i> Mont. <i>crassatella</i> Bl. <i>Crassina Danmontensis</i> Lam.	Newport, R. I.
350	4	Bulla insculpta Totten.	Newport, R. I.
350	5	oryza Totten.	Newport, R. I.
351	6	Natica immaculata Totten.	Newport, R. I.
352	7	Turritella interrupta Totten.	Newport, R. I.
352	8	Cerithium reticulatum Totten. <i>Pasithea nigra</i> Totten.	Narraganset Roads, R. I., Boston.

Greene, &c.—A Catalogue of the Testacea or Shells of Massachusetts was published in HITCHCOCK'S "Report on the Geology, Botany, and Zoology," made to the government of that State. In the second edition (1835) are catalogues by THOMAS A. GREENE, JOHN MILTON EARLE, and the Boston Society of Natural History. No descriptions are given.

This is the second edition. In the first edition (1833), p. 554 of bound Reports, is a list of the shells of New England, by Col. Jos. G. TOTTEN (vid. p. 45), for which the Society catalogue is substituted in the second edition.

Greene.—List of the Marine Shells of Massachusetts, arranged according to the System of Lamarek. By THOMAS A. GREENE, Esq., of New Bedford.

CLASS XI. CONCHIFERA.

Order I. Bimusculosa.

Page.	Name.	Locality.
19	Teredo navalis.	On the bottoms of ships.
19	Pholas crispata.	
19	Solen ensis.	
19	<i>viridis.</i>	Not common in the N. E. States.
19	Solecurtus Caribæus (rare).	Found at New Bedford.
19	<i>costatus</i> Say.	Common at Nahant Beach.
19	<i>fragilis.</i>	Found at New Bedford.
	<i>S. centralis</i> Say.	
19	Mya mercenaria Say.	
19	Anatina convexa Turton.	
	<i>Thracia</i> Blainville.	
19	Leana Conrad.	At Nantucket.
	<i>A. prætenuis?</i> Turton.	
19	Mactra solida.	
19	<i>gigantea</i> Lam.	
	<i>M. solidissima</i> Dillwyn.	
19	<i>subtruncata.</i>	
19	<i>lateralis</i> Say.	
19	<i>subtriangulata.</i>	
	<i>M. arcata</i> Conrad.	
	Figured in the supplement to Wood's "Index Testaceologicus."	
20	<i>tellinoides</i> Conrad.	
20	Solemya velum Say.	Not uncommon at New Bedford.
20	Amphidesma corbuloides.	
	<i>Mya Norwegica</i> Wood & Dill.	
	<i>hyalina</i> Conrad.	

Page.	Name.	Locality.
20	Corbula ferruginosa.	
	<i>Mya ferruginosa</i> Wood.	
20	Pandora trilineata Say.	Found in Nantucket harbor.
20	Petricola pholadiformis Lam.	Very common.
	<i>P. fornicata</i> Say.	
20	Sanguinolaria fusca Conrad.	At Nantucket.
20	Tellina polita Say.	Found at New Bedford.
20	Lucina divaricata.	A single valve found at Chatham.
	<i>Astarte castanea</i> Say.	Ocean shore at Nantucket.
20	Astarte. A distinct species, with margins entire.	
20	Cyprina Islandica.	Common in Essex County.
	<i>Venus Islandica</i> L.	
20	Venus mercenaria.	
20	præparca Say.	
20	notata Say.	
20	Cardium Mortoni Conrad.	Very common at New Bedford.
20	pinnulatum Conrad.	
20	Cardita. This species appears to be undescribed.	
20	Arca ponderosa Say.	} Found at Smith's point, on the ocean shore of Nantucket.
20	pexata Say.	
20	transversa Say.	
20	Nucula margaritacea.	Not uncommon in Buzzard's Bay.
	<i>N. proxima</i> Say.	
	<i>Arca nucleus</i> L.	
20	rostrata Montagne.	
	<i>N. limatula</i> Say.	

Order II. **Unimusclosa.**

20	Modiola papuana.	
	<i>Mytilus modiolus</i> L.	
20	Mytilus edulis.	
20	ungulatus.	
20	pellucidus.	
20	incurvatus.	
20	demissus.	Very abundant at New Bedford.
21	Pecten Magellanicus.	Rare in Mass., common at Eastport, Me.
21	Islandicus (rare).	
	<i>P. Pealeii</i> Conrad.	
21	concentricus Say.	
21	Ostrea Virginica.	
21	Anomia ephippium.	Abundant in New Bedford.
21	undulata. Is it a distinct species from the preceding?	

CLASS XII. **MOLLUSCA.**Order II. **Gasteropoda.**

Page.	Name.	Locality.
21	Chiton. Not described to my knowledge.	Found at Nantucket.
21	Patella alveus <i>Conrad.</i>	
21	<i>amœna</i> <i>Say.</i>	
21	Crepidula fornicata <i>Say.</i>	Very common on our coast.
21	<i>glauca</i> <i>Say.</i>	
21	<i>plana</i> <i>Say.</i>	Found in Nantucket harbor.

Order III. **Trachelipoda.**

21	Velutina rupicola <i>Conrad.</i>	
21	Bulla solitaria <i>Say.</i>	Found at Holme's Hole.
	Is it a variety of <i>B. hydatis</i> ?	
21	Natica duplicata <i>Say.</i>	
21	<i>heros</i> <i>Say.</i>	
21	<i>triseriata</i> <i>Say.</i>	
	<i>Nerita intricata</i> of Wood's Supplement.	
21	Melampus videntatus <i>Say.</i>	Common in salt marshes, N. Bed.
21	Iacuna pertusa <i>Conrad.</i>	
21	Turbo obligatus <i>Say.</i>	
21	<i>irroratus</i> <i>Say.</i>	
21	<i>palliatus</i> <i>Say.</i>	
21	Turritella bisuturalis <i>Say.</i>	
21	<i>alternata</i> <i>Say.</i>	
21	Fusus Islandicus.	
	<i>Murex corneus</i> Wood & Dill.	
	<i>F. corneus</i> <i>Say.</i>	
21	<i>cinereus</i> <i>Say.</i>	
22	<i>decemcostatus</i> <i>Say.</i>	
	<i>Murex carinatus</i> Pennant.	
22	Ranella caudata.	At Nantucket.
22	Pyrula canaliculata.	
	<i>Murex canaliculata.</i>	
22	<i>carica.</i>	
22	Nassa obsoleta <i>Say.</i>	
	<i>Buccinum noveboracense</i> Wood's Supplement.	
22	<i>trivittata</i> <i>Say.</i>	
22	<i>lunata</i> <i>Say.</i>	
22	Purpura lapillus.	
	<i>Buccinum lapillus</i> L.	
22	<i>imbricata</i> Lam.	
22	Buccinum undatum L.	
22	Columbella terpsichore.	
	<i>Buccinum terpsichore</i> , Wood's Supplement.	

Order IV. **Cephalopoda.**

Page.	Name.	Locality.
22	Spirula Peronii. <i>Nautilus spirula</i> L.	Found on the ocean shore of Nantucket.

Earle.—List of Land and Fresh-water Shells in Massachusetts so far as they have been ascertained: by Mr. JOHN MILTON EARLE, of Worcester. (Vide p. 39.)

I. BIVALVES.

Page.	Name.	Locality.
22	Unio complanatus Lam. <i>U. purpureus</i> Say.	
22	nasutus Say.	Ponds in Essex & Plymouth Cos.
22	ochraceus Say.	Ponds in Plymouth County.
22	radiatus Say.	Ponds in Plymouth & Essex Cos.
22	Alasmodonta margaritifera L. <i>A. arcuata</i> Barnes.	
22	marginata Say.	Blackstone river.
22	undulata Say.	Do. and streams in Plym. Co.
22	Anodonta cataracta Say.	
22	marginata Say.	Blackstone and French rivers.
22	lugubris Say.	Ponds in Essex County.
22	Cyclas similis Say.	
23	dubia Say.	
	And two species not described.	

II. UNIVALVES.

Page.		Page.	
23	Paludina decisa Say.	23	Planorbis parvus Say.
23	limosa ? Say.	23	Lymnæa catascopium Say.
23	Planorbis trivolvis Say.	23	heterostropha Say.
23	bicarinatus Say.	23	columella Say.
23	armigerus Say.		And one species not ascertained.
23	campanulatus.	23	Valvata arenifera ? Lea.

LAND SHELLS.

23	Helix albolabris.	23	Helix minuta Say.
23	arboreus Say.	23	hirsuta Say.
23	tridentata Say.	23	labyrinthica Say.
23	alternata Say.	23	perspectiva Say.
23	glaphyra Say.	23	fraterna Say.
23	thyroidus Say.		And two other species.

AMPHIBIOUS.

Page.		Page.	
23	<i>Succinea ovalis</i> Say.	23	<i>Pupa corticaria</i> ? Say.
23	<i>campestris</i> ? Say.	23	<i>Caracolla</i> .
And one species not ascertained.		One species not ascertained.	

Catalogue of Boston Society of Natural History. (Vide p. 39.)

CLASS XI. **CONCHIFERA** LAM.Order I. **Bimusculosa.**

Page.		Page.	
25	<i>Solen ensis</i> Lin.	25	<i>Astarte castanea</i> Say.
25	<i>viridis</i> Say.	25	<i>Cyclas similis</i> Say.
25	<i>Solecurtus Caribæus</i> Blain.	25	<i>dubia</i> Say.
25	<i>maximus</i> .	25	<i>Cyprina Islandica</i> Lam.
25	<i>costatus</i> Say.	25	<i>Cytherea convexa</i> Say.
25	<i>fragilis</i> Pulteney.	25	<i>Venus mercenaria</i> Lin.
25	<i>Glycimeris siliqua</i> Lam.	25	<i>præparca</i> Say.
25	<i>Mya mercenaria</i> Lin.	25	<i>notata</i> Say.
25	<i>Anatina Leana</i> Conrad.	25	<i>gemma</i> Totten.
25	<i>convexa</i> .	26	<i>Cardium Mortoni</i> Conrad.
25	<i>Mactra gigantea</i> Lam.	26	<i>pinulatum</i> Conrad.
25	<i>lateralis</i> Say.	26	<i>Cardita borealis</i> Conrad.
25	<i>arctata</i> Conrad.	26	<i>Arca ponderosa</i> Say.
25	<i>tellinoides</i> Conrad.	26	<i>pexata</i> Say.
25	<i>Solemya velum</i> Say.	26	<i>transversa</i> Say.
25	<i>borealis</i> Totten.	26	<i>Nucula margaritacea</i> Lam.
25	<i>Amphidesma corbuloides</i>	26	<i>rostrata</i> Montague.
	Lam.	26	<i>Unio complanatus</i> Soland.
25	<i>Corbula ferruginosa</i> Wood.	26	<i>nasutus</i> Say.
25	<i>contracta</i> Say.	26	<i>ochraceus</i> Say.
25	<i>Pandora trilineata</i> Say.	26	<i>radiatus</i> Lea.
25	<i>Saxicava distorta</i> Say.	26	<i>Alasmodonta arcuata</i> Barn.
25	<i>Petricola pholadiformis</i>	26	<i>marginata</i> Say.
	Lam.	26	<i>undulata</i> Say.
25	<i>dactylus</i> Say.	26	<i>Anodonta cataracta</i> Say.
25	<i>Sanguinolaria fusca</i> Conrad.	26	<i>marginata</i> Say.
25	<i>Tellina polita</i> Say.	26	<i>lugubris</i> Say.
25	<i>Lucina divaricata</i> Lam.		

Order II. **Unimusculosa.**

26	<i>Modiola papuana</i> Lam.	26	<i>Mytilus unguatus</i> Humboldt.
26	<i>plicatula</i> Lam.	26	<i>incurvatus</i> Maton.
26	<i>glandula</i> Totten.	26	<i>pellucidus</i> .
26	<i>Mytilus edulis</i> Lin.	26	<i>Pecten Magellanicus</i> Lam.

Page.		Page.	
26	<i>Pecten Islandicus</i> Lam.	26	<i>Ostrea edulis</i> Lin. (var.)
26	<i>concentricus</i> Say.	26	<i>Anomia ephippium</i> Lin.
26	<i>Ostrea Canadensis</i> Lam.	26	<i>Terebratula</i> .
26	<i>Virginica</i> Lam.		An undescribed recent species.

CLASS XII. MOLLUSCA.

Order II. Gasteropoda.

26	<i>Chiton</i> .	27	<i>Ancylus rivularis</i> Say.
	One species.	27	<i>Velutina rupicola</i> Conrad.
26	<i>Patella alveus</i> Conrad.	27	<i>Bulla solitaria</i> Say.
26	<i>amœna</i> Say.	27	<i>Limax</i> .
26	<i>Crepidula fornicata</i> Say.		One or more species.
26	<i>glaucia</i> Say.	27	<i>Testacella</i> .
27	<i>plana</i> Say.		One or more species.
27	<i>convexa</i> Say.		

Order III. Trachelipoda.

27	<i>Helix albolabris</i> Say.	27	<i>Valvata arenifera</i> Lea.
27	<i>thyroidus</i> Say.	27	<i>Paludina decisa</i> Say.
27	<i>alternata</i> Say.	27	<i>limosa</i> Say.
27	<i>perspectiva</i> Say.	27	<i>lapidaria</i> Say.
27	<i>glaphyra</i> Say.		One other species.
27	<i>arborea</i> Say.	27	<i>Natica duplicata</i> Say
27	<i>tridentata</i> Say.	27	<i>heros</i> Say.
27	<i>hirsuta</i> Say.	27	<i>triseriata</i> Say.
27	<i>fraterna</i> Say.	28	<i>Melampus bidentalis</i> Say.
27	<i>labyrinthica</i> Say.	28	<i>Vermetus lumbricalis</i> Lam.
27	<i>minuta</i> Say.	28	<i>Lacuna pertusa</i> Conrad
27	<i>subglobosa</i> (MSS.)	28	<i>fusca</i> (MSS.)
27	<i>Pupa fallax</i> Say.	28	<i>Turbo obligatus</i> Say.
27	<i>corticaria</i> Say.	28	<i>palliatu</i> s Say.
27	<i>Succinea ovalis</i> Say.	28	<i>vestita</i> Say.
27	<i>campestris</i> Say.	28	<i>irroratus</i> Say.
27	<i>Auricula myosotis</i> Drap.	28	<i>inflatus</i> Totten.
27	<i>Planorbis trivolvis</i> Say.	28	<i>minutus</i> Totten.
27	<i>bicarinatus</i> Say.	28	<i>Turritella alternata</i> Say.
27	<i>armigerus</i> Say.	28	<i>bisuturalis</i> Say.
27	<i>campanulatus</i> Say.	28	<i>Fusus corneus</i> Say.
27	<i>parvus</i> Say.	28	<i>cinereus</i> Say.
	Two or more other species.	28	<i>decemcostatus</i> Say.
27	<i>Physa heterostropha</i> Say.	28	<i>Pyrula canaliculata</i> Lam.
27	<i>Lymnœa catascopium</i> Say.	28	<i>carica</i> Lam.
27	<i>columella</i> Say.	28	<i>Ranella caudata</i> Say.
27	<i>ovata</i> Lam.	28	<i>Purpura lapillus</i> Lam.
	Two or more other species.	28	<i>imbricata</i> Lam.

Page.		Page.	
28	<i>Buccinum undatum</i> Lin.	28	<i>Nassa lunata</i> Say.
28	<i>Nassa obsoleta</i> Say.	28	<i>vibex</i> Say.
28	<i>trivittata</i> Say.	28	<i>Columbella avara</i> Say.

Order IV. **Cephalopoda.**

28	<i>Spirula Peronii</i> Lam.	28	<i>Loligo pavo</i> Lesueur.
28	<i>Loligo illecebrosa</i> Lesueur.		One or two other species.

Totten.—List of Shells observed on and near the Coast of New England: by Col. Jos. G. TOTTEN. (Hitchcock's Report, Amherst, 1833. Vide p. 39.)

Page.		Page.	
560	<i>Solen ensis</i> Linn.	561	<i>Nucula proxima</i> Say.
560	<i>viridis</i> Say.	561	<i>limatula</i> Say.
560	<i>Solecurtus caribaeus</i> Lam.	561	<i>Unio complanatus</i> Soland.
560	<i>costatus</i> Say.	561	<i>Alasmodonta margaritifera</i>
560	<i>fragilis</i> Dillw.		Gmelin.
	(<i>S. centralis</i> Say.)	561	<i>Modiola plicatula</i> Lam.
560	<i>Mya mercenaria</i> Linn.	561	<i>Mytilus edulis</i> Linn.
560	<i>hyalina</i> Conr.	561	<i>Pecten magellanicus</i> Gmel.
560	<i>Anatina convexa</i> Wood.	561	<i>Pealeii</i> Conr.
	(<i>A. thracia</i> of Blainv.)	561	<i>concentricus</i> Say.
560	<i>leana</i> Conr.	561	<i>Anomia ephippium</i> Gmelin.
560	<i>Mactra solidissima</i> Chemn.	561	<i>Chiton marginatus</i> Linn.
560	<i>lateralis</i> Say.	561	<i>Patella amœna</i> Say.
560	<i>arctata</i> .	561	<i>alveus</i> Conr.
560	<i>tellinoides</i> Conr.	561	<i>Dispotea striata</i> Say.
560	<i>Solemya velum</i> Say.	561	<i>Crepidula fornicata</i> Gmelin.
560	<i>Corbula contracta</i> Say.	561	<i>convexa</i> Say.
560	<i>Pandora tritineata</i> Say.	561	<i>plana?</i> Say.
560	<i>Saxicava distorta</i> Say.	561	<i>glauca?</i> Say.
560	<i>Petricola pholadiformis</i>	561	<i>Helix albolabris</i> Say.
	Lam.	561	<i>alternata</i> Say.
560	<i>Sanguinolaria fusca</i> Say.	561	<i>thyroidus</i> Say.
560	<i>Lucina divaricata</i> Gmelin.	562	<i>Paludina decissa</i> Say.
560	<i>Astarte castanea</i> Say.	562	<i>Natica duplicata</i> Say.
560	<i>Cytherea convexa</i> Say.	562	<i>heros</i> Say.
560	<i>Venus mercenaria</i> Linn.	562	<i>triseriata</i> Say.
560	<i>notata</i> Say.	562	<i>Turbo palliatus</i> Say.
560	<i>Cardium Mortoni</i> Conr.	562	<i>obligatus</i> Say.
560	<i>pinnulatum</i> Conr.	562	<i>vestita</i> Say.
561	<i>Cardita borealis</i> Say.	562	<i>irroratus</i> Say.
561	<i>Arca pexata</i> Say.	562	<i>rudis</i> Say.

Page.		Page.	
562	<i>Lacuna pertusa</i> Conr.	562	<i>Ranella caudata</i> Say.
562	<i>Velutina rupicolor</i> Conr.	562	<i>Purpura lapillus</i> Linn.
562	<i>Turritella bisuturalis</i> Say.	562	<i>Buccinum undatum</i> Linn.
562	<i>Fusus cinereus</i> Say.	562	<i>Nassa vibex</i> Say.
562	<i>decemcostatus</i> Say.	562	<i>trivittata</i> Say.
562	<i>corneus</i> Linn.	562	<i>obsoleta</i> Say.
562	<i>Fulgur canaliculata</i> Lam.	562	<i>lunata</i> Say.
562	<i>carica</i> Lam.	562	<i>Columbella avara</i> Say.

Jay.—A Catalogue of Recent Shells in the Cabinet of JOHN C. JAY, M. D. New York, Aug. 1, 1835.

[No reference is made to this edition, as its contents are included in the fourth edition.]

Ferussac.—Observations adressées en forme de lettre a MM. Th. Say, C. S. Rafinesque, Is. Lea, S. P. Hildreth, T. A. Conrad, et C. A. Poulson, sur la Synonymie des Coquilles bivalves de l'Amérique Septentrionale, et Essai d'une Table de Concordance à ce sujet: par le BARON DE FERUSSAC. (From the Magasin de Zoologie, 1835, Classe V, Nos. 59, 60, pp. 1-36.)

[There are copious notes and a complete list of works on the subject, but no descriptions. The catalogue is alone given.]

Page.		Page.	
25	<i>Mytilus recurvus</i> Raf.	25	<i>Anodonta marginata</i> Say.
25	<i>Anodonta cataracta</i> Say.		<i>A. Pensylvanica</i> Lam.
	<i>Mytilus fluviatilis</i> Geml.,	25	<i>undulata</i> Say.
	Dillw., Wood.		<i>A. rugosus</i> Swains.
	<i>A. fluviatilis</i> Bosc., Gray.	25	<i>lata</i> Raf.
	<i>Mytilus illitus</i> Solander.		<i>Unio dehiscens</i> Say.
	<i>A. parallela</i> Hyde, in litt.		<i>Oriens</i> Lea.
25	<i>digonota</i> Raf.		<i>latus</i> Conr.
	(an <i>cataracta</i> jun.?)		<i>A. pralonga</i> Green (Raf.)
25	<i>inflata</i> Raf.		<i>Odatelia radiata</i> Raf. (Journal Atlant.)
25	<i>gibbosa</i> Say.	25	<i>imbecillis</i> Say.
25	<i>fragilis</i> Lam.	25	<i>incerta</i> Nob., Lea.
25	<i>grandis</i> Say.		(an <i>imbecilis</i> ?)
25	<i>suborbiculata</i> Say.	25	<i>implicata</i> Say.
25	<i>edentula</i> Say.	25	<i>lugubris</i> Say.
	(<i>Alasmodonta</i> Say, Conr.)	25	<i>atra</i> Raf.
25	<i>Ferussaciana</i> Lea.	25	<i>cuneata</i> Raf.
	(an <i>Alasmodonta edentula</i> ?)		

Page.		Page.	
25	Anodonta areolatus Swains.	25	Alasmodonta globosa Lea.
25	subvexa Conr.	25	costata Raf.
25	declivis Conr.		<i>A. rugosa</i> Barnes.
25	teres Conr.	25	hians Raf.
25	plana Lea.		(an <i>costata</i> Monstr.?)
25	Stewartiana Lea.	25	marginata Say, Raf.
25	Benedictensis Lea.		<i>Decurambis scriptum</i> Raf.
25	glaucia Valenc. (Acapulco).		(d'après Conr.)
25	impura Say (Mexico).		<i>U. cariosa</i> Lam. (var. 2).
25	Dipsas? fragilis Raf.	26	<i>Mya rugulosa</i> Wood.
	(Lasmonos).	26	undulata Say, Barnes.
25	Symphynota complanata		<i>U. varicosa</i> Lam.
	Lea.		<i>hians</i> Valenc.
	(<i>Alasmodonta</i> Barn., Conr.)		<i>glabratus</i> Sowerby.
25	alata Lea.		<i>Mya undulata</i> Wood Sup.
	<i>U. alatus</i> Say, Lam., Wood.	26	monodonta Say (Unio).
	<i>megapterus</i> Raf.		<i>U. soleniformis</i> Lea.
25	fragilis Raf.	26	confragosa Say, Conr.
	(S. G. <i>Leptodea</i> .)	26	ambigua Say.
	<i>U. gracilis</i> Barnes, Lea.	26	ponderosum Raf.
	<i>planus</i> Barnes (d'après		(<i>Leasmigona</i> .)
	M. Lea).	26	rugosum Raf. id.
	<i>fragilis</i> Swains., Conr.	26	sulcatum Raf. id.
	<i>S. gracilis</i> Lea.	26	viridis Raf. id.
25	Ohiensis Raf.	26	atropurpureum Raf.
	(S. G. <i>Lastena</i> .)		(<i>Decurambis</i> .)
	<i>U. laevissima</i> Conrad.	26	badium Raf. (<i>Sulcularia</i> .)
	<i>S. laevissima</i> Lea.	26	papyraceum Raf. id.
25	compressa Lea.	26	sculptilis Say, Conr.
	<i>U. compressus</i> Conr.	26	radiata Conr.
25	inflata Lea.	26	dubia Say.
	(<i>U. Ohiensis?</i> Say.)		<i>U. Hildrethianus</i> Lea.
	<i>U. Alabamensis</i> Conr.	26	margaritifera Linné. (<i>Mya</i> .)
25	leptodon Raf.		<i>Margaritana fluviatilis</i> Sch.
	(S. G. <i>Leptodea</i> .)		<i>U. elongata</i> Lam., Mich.
	<i>S. tenuissima</i> Lea.		<i>Roissyi</i> Mich.
	<i>A. purpureus</i> Swains.		<i>Alasm. arcuata</i> Barnes.
	<i>U. leptodon</i> Conr.	26	Ravenelliana Lea.
	<i>planus</i> Barn. (selon M.		(<i>Margaritana</i> .)
	Say?)	26	Unio parvus Barnes.
25	diaphanus? Raf.	26	Glans Lea.
	(<i>Metaptera</i> ?)		(<i>parvus?</i> Say.)
25	lasmabrachis? Raf.	26	Lens Lea.
	(<i>Metaptera</i> ?)		(<i>laevigatus</i> , selon Conr. ; sub-
25	Poulsoni Conr.		<i>rotundus</i> , selon Say.)

Page.		Page.	
26	Unio suborbiculatus Lam. <i>U. rotundata</i> Lam. <i>globulus</i> Say. <i>subglobosus</i> Lea.	26	Unio fasciolus Raf. (son ex.) <i>U. suboratus</i> Lea. id. (<i>Cardium</i> , var., selon Say et Conr.) <i>jun. multiradiatus</i> Lea, Con. (<i>fasciolus</i> Raf., selon Say.)
26	tetralasmus Say.	26	ovatus Say, Lam., Raf., Barn.
26	lanceolatus Lea.	26	ochraceus Say, Conr. <i>Symph. ochracea</i> Lea.
26	declivis Say. <i>U. geometricus</i> Lea.	26	ventricosus Barnes. <i>U. Cardium</i> Say, Conr.
26	subrostratus Say. (an <i>U. nasutus</i> ?)	26	Cardium Raf., Say. <i>U. ventricosus</i> Barnes, var. <i>Occidens</i> Lea.
26	nasutus Say, Barnes. <i>U. rostrata</i> Valenc. <i>Mya nasuta</i> Wood.	26	capax Green, Conr. (<i>Cardium</i> , var., selon Say.)
26	complanatus Soland., Dilw. <i>U. violaceus</i> Spengl. <i>purpureus</i> Say, Barnes. <i>coarctata</i> Lam. (d'après son exempl.) <i>purpurascens</i> Lam. id. <i>rhombula</i> Lam. id. <i>carinifera</i> Lam. id. <i>georgiana</i> Lam. id. <i>sulcidens</i> Lam. id. <i>glabrata</i> Lam. id. <i>rarisulcata</i> ? Lam. id. <i>fluvialilis</i> Green? <i>aurata</i> Raf. (d'après Conr.)	26	cariosus Say, Lam., Barn. <i>U. luteola</i> Lam. (d'après son exempl.) <i>ovatus</i> Valenc.
26	congaræus Lea.	27	viridis Raf. (<i>cariosus</i> , selon Say.)
26	angustatus Lea.	27	siliquoideus Barnes. (<i>cariosus</i> , selon Say.) (<i>inflatus</i> , selon Conr.) <i>U. rigida</i> Wood? a) <i>inflatus</i> Barnes?
26	subtentus Say.	27	fasciatus Raf., Say. <i>U. carinatus</i> Barnes, selon Say et Conr.)
26	Carolinianus Bosc. <i>U. obesus</i> Lea.	27	radiatus Spengl., Gmel., Lam. <i>U. oblongata</i> Wood Sup. <i>Virginiana</i> Lam.
26	camptodon Say. (an <i>Carolinianus</i> ?)	27	teres Raf. <i>U. anodontoides</i> Lea.
26	heterodon Lea.	27	rectus Lam., Valenc. <i>U. latissima</i> Raf. <i>proclongus</i> Barnes. <i>Mya praelonga</i> Wood.
26	iris Lea. (<i>subrostratus</i> , selon Say.)	27	crassus Say, Raf. (<i>cariosus</i> Say, selon Conr.) <i>U. crassidens</i> Lam., var. c. <i>ellipticus</i> Barnes. (<i>cariosus</i> Say, selon Conr.)
26	calceolus Lea. (<i>Alas. marginata</i> , selon Say; <i>truncata</i> Say, selon Conr.)		
26	purpuratus Lam. <i>U. ventricosa</i> Soland. <i>lugubris</i> Say. <i>ater</i> Lea.		

Page.		Page.	
	<i>U. carinatus</i> Barnes.	27	Unio fascicularis Raf.
	<i>Mya gravis</i> Wood, Sup.		<i>U. phaseolus</i> Hildr., Say.
27	Unio ligamentina Lam.		<i>mucronatus</i> Barnes.
	<i>U. ellipsaria</i> Raf.		<i>planulatus</i> Lea.
	(<i>crassus</i> , selon Say ; <i>lineolatus</i> , selon Conr.)		<i>sinuatus</i> Raf. ? (sel. Con.)
27	verrucosus Raf., Say.	27	Unio niger Raf., Say.
	<i>U. tuberculatus</i> Barnes.		<i>U. crassidens</i> Lam., var. b.
27	quadrulus Raf.		<i>euneatus</i> Barnes.
	<i>U. rugosus</i> Barnes.		<i>Bariosta ponderosa</i> Raf.
	<i>asperrimus</i> Lea.		(d'après l'ex. env. par lui.)
27	lachrymosus Lea.	27	Venus Raf.
	(<i>quadrulus</i> Say, Conr.)	27	fabalis Lea.
27	trapezoides Lea.		<i>U. lapillus</i> Say.
	<i>U. crassidens</i> Lam., var. a.	27	nervosus Raf.
	<i>interruptus</i> Say.		<i>U. zig-zag</i> Lea.
27	Heros Say.	27	donaciformis Lea ?
	<i>U. multiplicatus</i> Lea.		(<i>nervosus</i> , selon Say.)
	<i>undulatus</i> Say.		(<i>truncatus</i> , selon Conr.)
27	plicatus Say, Barn., Hildr.	27	truncatus Raf.
	<i>U. Peruviana</i> Lam. (d'après son exempl. ; <i>costatus</i> ? selon Say.)		<i>U. elegans</i> Lea.
	<i>rariplacata</i> Lam.	27	triqueter Raf.
	<i>Dombeiana</i> Valenc.		<i>U. triangularis</i> Barnes.
	<i>crassus</i> Barnes.		<i>cuneatus</i> Swainson.
27	costatus Raf.		<i>formosus</i> Lea.
	<i>U. undulatus</i> Barnes.	27	foliatus Hildr.
	<i>undulatus</i> Valenc.	27	Cyphia Raf.
27	apiculatus Say.		<i>U. Æsopus</i> Green.
	<i>U. asper</i> Lea (sp. dis. ? Con.)	27	gibbosus Raf.
27	metanevrus Raf.		<i>U. perplexus</i> Lea.
	<i>U. nodosus</i> Barnes.		a) <i>Epioblasma biloba</i> Raf. ?
27	cylindricus Say.	28	torulosus Raf.
	<i>U. naviformis</i> Lam., Valenc.		(<i>gibbosus</i> , selon Conr.)
	<i>solenoides</i> Raf.	28	reflexus Raf.
27	dilatatus Raf.		<i>U. cornutus</i> Barnes.
	<i>U. nasutus</i> Lam.	28	pachostea Raf.
	<i>gibbosus</i> Barnes.		(<i>triangularis</i> , selon Conr.)
	<i>atro-violacea</i> Raf.		<i>U. Cooperianus</i> Lea.
	(d'après Conr.)	28	tuberculatus Raf.
	<i>jun. cuprea</i> Raf. id.		<i>U. verrucosus</i> Barnes.
	a) <i>mucronatus</i> Barnes.		<i>verrucosus purpureus</i> Hil.
27	flavus Raf.		<i>tuberculosa</i> Valenc.
	<i>U. rubiginosus</i> Lea.	28	verrucosus Val.
			<i>U. verrucosus</i> Barn., var.
			<i>verrucosus albus</i> Hildr.

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|-------|---|-------|---------------------------------------|
| 28 | Unio bullatus Raf. | 28 | Unio lineolatus Raf. |
| 28 | plumbeus Nob. | | <i>U. depressus Raf.</i> |
| | <i>Chama plumbea Chemn.</i> | | <i>Securis Lea.</i> |
| | <i>U. nodulosus Wood.</i> | 28 | interruptus Raf. |
| 28 | pustulosus Lea. | | <i>U. brevidens Lea.</i> |
| | (<i>bullatus Say, Contr.</i>) | 28 | nexus Say. |
| 28 | nodulatus Raf. | | <i>U. arcuformis Lea.</i> |
| | <i>U. pustulatus Lea.</i> | 28 | undatus Barnes. |
| 28 | Stegarius Raf. | | <i>U. trigonus Lea.</i> |
| | <i>U. irroratus Lea.</i> | 28 | decisus Lea. |
| 28 | retusa Lam. | | (<i>Scalenius? var., sel. Say.</i>) |
| | <i>U. torsus Raf.</i> | 28 | cuneatus Raf. |
| 28 | subrotundus Raf. | | (<i>Scalenius, selon Contr.</i>) |
| | <i>U. rotunda Wood.</i> | | <i>U. patulus Lea.</i> |
| | <i>Circulus Lea.</i> | | (<i>Scalenius, selon Contr.</i>) |
| | <i>orbiculatus Hildr.</i> | 28 | lateralis Raf. |
| | <i>pusilla Raf. (selon Contr.)</i> | | (<i>triangularis, selon Contr.</i>) |
| | <i>striatus Raf. id.</i> | | <i>U. crassus Barnes, var. c.</i> |
| 28 | lævigatus Raf. | 28 | sintoxia Raf. |
| 28 | castaneus Lea. | | (<i>triangularis, selon Contr.</i>) |
| | (<i>lævigatus? selon Say.</i>) | 28 | mytiloides Raf. |
| 28 | politus Say. | | (<i>triangularis, selon Contr.</i>) |
| | <i>U. subrotundus Lea.</i> | | <i>U. cardiacea Say of Guérin.</i> |
| | (<i>personatus, selon Contr.</i>) | | <i>pyramidatus Lea.</i> |
| 28 | personatus Say. | | (<i>triangularis, selon Contr.</i>) |
| 28 | Cyclips Raf. | | <i>U. rubra Raf.</i> |
| | <i>U. abruptus Say.</i> | | (<i>triangularis, selon Contr.</i>) |
| | <i>Calendis Raf. (sel. Contr.)</i> | 28 | Clava Lam. |
| 28 | obliquatus Raf. | | <i>U. Scalenia Raf.</i> |
| | monstr. <i>U. Haysianus Lea.</i> | | <i>modioliformis Say.</i> |
| | a) <i>U. sulcatus Lea.</i> | 28 | retusus Raf., Contr. |
| | monstr. <i>U. ridibundus Say.</i> | 28 | stapes Lea, Contr. |
| 28 | olivarius Raf., Contr. | | (<i>retusus? Say.</i>) |
| | <i>U. ellipsis Lea.</i> | 28 | flexuosus Raf., Contr. |
| | (<i>triangularis Raf., sel. Say.</i>) | 28 | pileus Lea, Contr. |
| 28 | triangularis Raf. | | (<i>flexuosus Say?</i>) |
| 28 | cicatricosus Say. | 28 | acutissimus Lea. |
| | (<i>Cyphia Raf., selon Contr.</i>) | 28 | Velum Say. |
| | <i>U. varicosus Lea, id.</i> | 28 | elliptica Raf. |
| 28 | obliqua Lam. | 28 | zonalis Raf. |
| | <i>U. obovalis Raf.</i> | 28 | montanus Raf. |
| | <i>ebenus Lam.</i> | | (<i>Contin. of a Monogr.</i>) |
| | <i>Mja obliqua Wood?</i> | 28 | rimosus Raf. id. |

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28	<i>Unio fulves Raf.</i>	
	(Contin. of a Monogr.)	
28	<i>roseus Raf.</i>	(Monogr.)
29	<i>pallidus Raf.</i>	id.
29	<i>vittatus Raf.</i>	
	(Contin. of a Monogr.)	
	(<i>inflatus?</i> selon Conr.)	
29	<i>diploderma Raf.</i>	id.
29	<i>perplexus Raf.</i>	id.
29	<i>granulatus Raf.</i>	id.
29	<i>metaplata Raf.</i>	id.
29	<i>decorticata Raf.</i>	(Monogr.)
29	<i>Cliffortiana Raf.</i>	id.
29	<i>attenuata Raf.</i>	id.
29	<i>plateolus Raf.</i>	
	(Contin. of a Monogr.)	
29	<i>tenellus Raf.</i>	id.
29	<i>pallens Raf.</i>	id.
29	<i>rivularis Raf.</i>	id.
29	<i>fontinalis Raf.</i>	id.
29	<i>Chloris Raf.</i>	id.
29	<i>castaneus Raf.</i>	id.
29	<i>cordatus Raf.</i>	(Monogr.)
29	<i>cinerescens Raf.</i>	
	(Contin. of a Monogr.)	
29	<i>lividus Raf.</i>	id.
29	<i>flexus Raf.</i>	id.
29	<i>marginatus Raf.</i>	id.
29	<i>brevialis Sow.?</i>	
29	<i>metallicus Say.</i>	(Mexique.)
	<i>U. cuprinus Lea.</i>	
29	<i>purpuratus Say.</i>	
29	<i>teniatus Conr.</i>	
29	<i>trabalis Conr.</i>	
29	<i>nebulosus Conr.</i>	
29	<i>Cor Conr.</i>	
29	<i>cœlatus Conr.</i>	
29	<i>maculatus Conr.</i>	
29	<i>vibex Conr.</i>	
29	<i>Greenii Conr.</i>	
29	<i>penitus Conr.</i>	
29	<i>Masoni Conr.</i>	
29	<i>delumbis Conr.</i>	
29	<i>arctatus Conr.</i>	
29	<i>pectorosus Conr.</i>	

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29	<i>Unio rubellus Conr.</i>	
29	<i>furvus Conr.</i>	
29	<i>Raveneli Conr.</i>	
29	<i>icterinus Conr.</i>	
29	<i>tenebrosus Conr.</i>	
29	<i>altilis Conr.</i>	
29	<i>perovalis Conr.</i>	
29	<i>prasinus Conr.</i>	
29	<i>infucatus Conr.</i>	
29	<i>oviformis Conr.</i>	
29	<i>perovatus Conr.</i>	
29	<i>lienosus Conr.</i>	
29	<i>stramineus Conr.</i>	
29	<i>arcus Conr.</i>	
29	<i>Blandingianus Lea.</i>	
29	<i>Camelus Lea.</i>	
29	<i>capillaris Lea.</i>	
	(an <i>U. personatus</i> Say?)	
29	<i>capsæformis Lea.</i>	
29	<i>confertus Lea.</i>	
29	<i>Conradicus Lea.</i>	
29	<i>Dromas Lea.</i>	
29	<i>fulvus Lea.</i>	
29	<i>Griffithianus Lea.</i>	
29	<i>Kirtlandicus Lea.</i>	
29	<i>modioliformis Lea.</i>	
29	<i>Nashvillianus Lea.</i>	
29	<i>Perdix Lea.</i>	
29	<i>pictus Lea.</i>	
29	<i>Ravenelianus Lea.</i>	
29	<i>Schoolcraftensis Lea.</i>	
29	<i>Shepardianus Lea.</i>	
29	<i>Sowerbianus Lea.</i>	
29	<i>Taitianus Lea.</i>	
29	<i>Troostensis Lea.</i>	
29	<i>Cyclas similis Say.</i>	
	<i>C. striatina Lam.</i>	
29	<i>sulcata Lam.</i>	
29	<i>sarratogea Lam.</i>	
29	<i>rhomboidea Say.</i>	
29	<i>partumeia Say.</i>	
29	<i>Virginica Gmel. (Tellina.)</i>	
	<i>T. pusilla Dillw., Turton.</i>	
29	<i>æqualis Raf.</i>	
29	<i>lasmanpsis Raf.</i>	

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29	Cyclas Caroliniana Bos., Lam. (<i>Cyrena</i> Say.)	29	Cyclas hammalis Raf. (<i>Corbicula</i> .)
29	dubia Say.	29	staminea Conr.
29	edentula Say.	29	Tremesia patelloides Raf.
29	transversa Say.	29	Rangia cyrenoides Desm.
29	triangularis Say. (Mexique.)		<i>Gnathodon</i> Gray.

Jay.—A Catalogue of Recent Shells, with descriptions of new or rare species, in the collection of JOHN C. JAY, M. D. Illustrated by 4 plates. Second edition. New York, 1836: 8vo. pp. 87.

[Vide fourth edition of the same.]

Couthouy.—Description of New Species of Mollusca and Shells found in Massachusetts Bay: by JOSEPH P. COUTHOUY. From the Bost. Journ. Nat. Hist., vol. ii. (American Journal of Science and Arts, O. S., vol. xxxiv, No. 1, July, 1838, pp. 216–219.)

Page.		Page.	
216	Tellina sordida Couth.	217	Bulla triticea Couth.
216	Cardium pubescens Couth.	217	Natica consolidata Couth.
216	Nucula myalis Couth.	217	Oxinoe? <i>glabra</i> Couth.
216	tenuisulcata Couth.	217	Jaminia exigua Couth.
216	Terebratula septentrionalis Couth.	218	Scalaria subulata Couth.
216	Eolis Bostoniensis Couth.	218	Novangliæ Couth.
217	salmonacea Couth. (<i>Carolina</i> Brug.)	218	Turbo incarnatus Couth.
217	gymnota Couth. (<i>Tergipes</i> Cuv.)	218	cinereus Couth.
217	Tritonia Reynoldsii Couth.	218	obscurus Couth.
217	Chiton fulminatus Couth.	218	Pyramis striatulus Couth.
217	sagrinatus Couth.	218	Turritella erosa Couth.
217	Emersonii Couth.	218	Pleurotoma bicarinata Cou.
217	Patella candida Couth.	218	Cancellaria buccinoides C.
		218	Fusus harpularius Couth.
		218	pleurotomarius Couth.
		219	Trichotropis costellatus C.

Lea.—A Synopsis of the Family of Naiades: by ISAAC LEA. Philadelphia: Carey, Lea & Blanchard, 1836. 8vo. pp. 62. With a plate of *Unio spinosus* Lea.

[Vide third edition.]

Conrad.—Descriptions of New Marine Shells from Upper California, collected by Thomas Nuttall, Esq.: by T. A. CONRAD. (From Journ. Acad. Nat. Sciences, Philadelphia, vol. vii, pt. 2, 1837.)¹

Page.	Pl.	Fig.	Name.	Locality.
244	xx	7	<i>Modiola semicostata</i> <i>Conr.</i>	Salem, Mass.
251			<i>Venus Mortoni</i> <i>Conr.</i>	Charleston, S. C.
259	xx	3	<i>Tellina lineata</i> <i>Conr.</i>	Mobile Point, Ala.
263	xx	26	<i>Scalaria turbinata</i> <i>Conr.</i>	Beaufort, N. C.
265	xx	21	<i>Purpura Floridana</i> <i>Conr.</i>	Florida and Ala.

Naturalist.—Miscellaneous Observations made during a tour in May, 1835, to the Falls of the Cuyahoga, near Lake Erie: extracted from the Diary of a Naturalist. (Am. Journ. Science and Art, O. S., vol. xxxi, No. 1, Jan. 1837, being the date of the title-page.)

Page.	Name.	Locality.
35	<i>Lymnæa stagnalis</i> <i>Lam.</i> (with a wood-cut).	Congress Lake.

By name only, the following univalves are quoted from the "Reserve":—

Page.		Page.	
36	<i>Pupa exigua</i> <i>Say.</i>	36	<i>Helix fuliginosa</i> <i>Griff.</i>
36	<i>ovata</i> <i>Say.</i>	36	<i>Pennsylvanica</i> <i>Green.</i>
36	<i>Helix albolabris</i> <i>Say.</i>	36	<i>Succinea ovalis</i> <i>Say.</i>
36	<i>thyroidus</i> <i>Say.</i>	36	<i>avara</i> <i>Say.</i>
36	<i>hirsuta</i> <i>Say.</i>	36	<i>obliqua</i> <i>Say.</i>
36	<i>perspectiva</i> <i>Say.</i>	36	<i>Melania depygis</i> <i>Say.</i>
36	<i>lineata</i> <i>Say.</i>	36	<i>Virginica</i> <i>Say.</i>
36	<i>labyrinthica</i> <i>Say.</i>	36	<i>subularis</i> <i>Lea.</i>
36	<i>multilineata</i> <i>Say.</i>	36	<i>Lymnæa elodes</i> <i>Say.</i>
36	<i>palliata</i> <i>Say.</i>	36	<i>reflexa</i> <i>Say.</i>
36	<i>gularis</i> <i>Say.</i>	36	<i>macrostoma</i> <i>Say.</i>
36	<i>ligera</i> <i>Say.</i>	36	<i>desidiosa</i> <i>Say.</i>
36	<i>solitaria</i> <i>Say.</i>	36	<i>stagnalis</i> <i>Lam.</i>
36	<i>concava</i> <i>Say.</i>	36	<i>Physa heterostropha</i> <i>Say.</i>
36	<i>profunda</i> <i>Say.</i>	36	<i>Paludina ponderosa</i> <i>Say.</i>
36	<i>alternata</i> <i>Say.</i>	36	<i>decisa</i> <i>Say.</i>
36	<i>egena</i> <i>Say.</i>	36	<i>granosa</i> <i>Say.</i>
36	<i>fallax</i> <i>Say.</i>	36	<i>Planorbis bicarinatus</i> <i>Say.</i>
36	<i>tridentata</i> <i>Say.</i>	36	<i>trivolis</i> <i>Say.</i>
36	<i>harpa</i> <i>Say.</i>	36	<i>campanulatus</i> <i>Say.</i>
36	<i>glaphyra</i> <i>Say.</i>	36	<i>armiger</i> <i>Say.</i>
36	<i>inornata</i> <i>Say.</i>	36	<i>exacuus</i> <i>Say.</i>

¹ This title gives not the slightest idea of the locality of the species described.

On the same page, *Helix harpa* is said to be an immature *Pupa*, and *Helix glaphyra*, *inornata*, and *fuliginosa* to be the same species.

On page 200, *Dr. Kirtland* is spoken of as author of above. *Helix fuliginosa* and *H. glaphyra* are said to be distinct.

Kirtland.—Report on the Zoology of Ohio: by Prof. J. P.

KIRTLAND, M. D. Cincinnati, Nov. 1, 1838.

[No descriptions are given, but notes on those against which the stars are affixed.—W. G. B.]

CLASS V.—TESTACEA.

BIVALVE SHELLS.

Page.	No.		Page.	No.	
170	1	<i>Unio Æsopus</i> Green.	171	32	<i>Unio iris</i> Lea.
170	2	<i>alatus</i> Say.	171	33	<i>irroratus</i> Lea.
170	* 3	<i>anodontoides</i> Lea.	171	*34	<i>Kirtlandianus</i> Lea.
170	4	<i>asperrimus</i> Lea.	171	35	<i>lævissimus</i> Lea.
170	5	<i>brevidentis</i> Lea.	171	36	<i>lacrymosus</i> Lea.
170	* 6	<i>camelus</i> Lea.	171	37	<i>lens</i> Lea.
170	7	<i>capsæforinus</i> Lea.	171	38	<i>luteolus</i> Lam.
171	8	<i>clavus</i> Lam.	171	39	<i>metaenevrus</i> Raf.
171	9	<i>circulus</i> Lea.	171	40	<i>multiradiatus</i> Lea.
171	10	<i>coccineus</i> Hildreth.	171	*41	<i>multiplicatus</i> Lea.
171	11	<i>compressus</i> Lea.	171	42	<i>mytiloides</i> Raf.
171	*12	<i>Cooperianus</i> Lea.	171	43	<i>monodontus</i> Say.
171	13	<i>cornutus</i> Barnes.	171	44	<i>nasutus</i> Say.
171	14	<i>crassidentis</i> Lam.	171	45	<i>obliquus</i> Lam.
171	*15	<i>crassus</i> Say.	171	*46	<i>occidentis</i> Lea.
171	16	<i>cylindricus</i> Say.	171	*47	<i>orbiculatus</i> Hild.
171	*17	<i>declivis</i> Say.	171	48	<i>ovatus</i> Say.
171	18	<i>dehiscens</i> Say.	171	49	<i>parvus</i> Barnes.
171	*19	<i>donaciformis</i> Lea.	171	50	<i>patulus</i> Lea.
171	20	<i>Dorfeullianus</i> Lea.	171	*51	<i>perplexus</i> Lea.
171	21	<i>ebenus</i> Lea.	171	*52	<i>personatus</i> Say.
171	22	<i>elegans</i> Lea.	171	53	<i>phaseolus</i> Hild.
171	23	<i>ellipsis</i> Lea.	171	54	<i>pileus</i> Lea.
171	24	<i>fabalis</i> Lea.	171	*55	<i>plicatus</i> Say.
171	25	<i>foliatus</i> Hild.	171	56	<i>pustulatus</i> Lea.
171	26	<i>fragosus</i> Contr.	171	57	<i>pustulosus</i> Lea.
171	27	<i>gibbosus</i> Barnes.	171	58	<i>pyramidatus</i> Lea.
171	28	<i>glans</i> Lea.	171	59	<i>Rangianus</i> Lea.
171	29	<i>gracilis</i> Barnes.	171	60	<i>rectus</i> Lam.
171	30	<i>graniferus</i> Lea.	171	61	<i>retusus</i> Lam.
171	31	<i>Hildrethianus</i> Lea.	172	62	<i>rubiginosus</i> Lea.

Page.	No.		Page.	No.	
		Unio—			Margaritana—
172	*63	<i>Schoolcraftensis</i> Lea.	172	*79	<i>calceola</i> Lea.
172	64	<i>securis</i> Lea.	172	80	<i>complanata</i> Lea.
172	65	<i>solidus</i> Lea.	172	81	<i>marginata</i> Lea.
172	66	<i>subovatus</i> Lea.	172	*82	<i>rugosa</i> Lea.
172	67	<i>subrotundus</i> Lea.			Anodonta—
172	68	<i>sulcatus</i> Lea.	172	83	<i>Buchanensis</i> Lea.
172	69	<i>tenuissimus</i> Lea.	172	84	<i>decora</i> Lea.
172	70	<i>triangularis</i> Barnes.	172	85	<i>edentula</i> Lea.
172	71	<i>trigonus</i> Lea.	172	86	<i>Ferrussaciana</i> Lea.
172	72	<i>tuberculatus</i> Barnes.	172	87	<i>imbecillis</i> Say.
172	73	<i>undulatus</i> Barnes.	172	88	<i>ovata</i> Lea.
172	74	<i>varicosus</i> Lea.	172	89	<i>pavonia</i> Lea.
172	75	<i>ventricosus</i> Barnes.	172	90	<i>Pepiniana</i> Lea.
172	76	<i>venustus</i> Lea.	172	91	<i>plana</i> Lea.
172	77	<i>verrucosus</i> Barnes.	172	92	<i>salmonia</i> Lea.
172	78	<i>zigzag</i> Lea.	172	93	<i>Wardiana</i> Lea.

UNIVALVE SHELLS.

172	94	<i>Ancylus rivularis</i> Say.	173	120	<i>Helix obstricta</i> Say.
172	95	<i>Helix albolabris</i> Say.	173	121	<i>palliata</i> Say.
172	96	<i>alternata</i> Say.	173	122	<i>Pennsylvanica</i> Gr.
172	97	<i>appressa</i> Say.	173	123	<i>perspectiva</i> Say.
172	98	<i>arboreus</i> Say.	173	124	<i>profunda</i> Say.
172	99	<i>clausa</i> Say.	173	125	<i>solitaria</i> Say.
173	100	<i>concava</i> Say.	173	126	<i>tridentata</i> Say.
173	*101	<i>diodonta</i> Say.	173	127	<i>Wardiana</i> Lea.
173	102	<i>elevata</i> Say.	173	128	<i>zaleta</i> Lea.
173	103	<i>fallax</i> Say.			Polygyra—
173	104	<i>fraterna</i> Say.	173	129	<i>Dorfeuilliana</i> Lea.
173	105	<i>fuliginosus</i> Griffith.	173	*130	<i>Helecia</i> Lea.
173	106	<i>glaphyra</i> Say.	173	131	<i>Pupa armifera</i> Say.
173	107	<i>gularis</i> Say.	173	*132	<i>exigua</i> Say.
173	108	<i>harpa</i> Say.	173	133	<i>ovata</i> Say.
173	109	<i>hirsuta</i> Say.	173	134	<i>Succinea avara</i> Say.
173	110	<i>indentata</i> Say.	173	135	<i>ovalis</i> Say.
173	111	<i>inflecta</i> Say.	173	136	<i>retusa</i> Lea.
173	112	<i>inornata</i> Say.	173	137	<i>vermetus</i> Say.
173	113	<i>interna</i> Say.			Cyclostoma—
173	114	<i>labyrinthica</i> Say.	174	138	<i>lapidaria</i> Say.
173	115	<i>lilgera</i> Say.	174	139	<i>marginalis</i> Say.
173	116	<i>lineata</i> Say.			Planorbis—
173	117	<i>minuta</i> Say.	174	140	<i>armigerus</i> Say.
173	118	<i>Mitchella</i> Lea.	174	141	<i>bicarinata</i> Say.
173	*119	<i>multilineata</i> Say.	174	142	<i>campanulata</i> Say.

Page. No.

Planorbis—

- 174 143 *exacuus* Say.
 174 144 *lens* Lea.
 174 *145 *parvus* Say.
 174 146 *trivolis* Say.
 174 147 *Physa elliptica* Lea.
 174 *148 *elongata* Say.
 174 149 *heterostroph*a Say.
 174 *150 *Sayii* Tappan.

Lymneus—

- 174 *151 *catascopus* Say.
 174 152 *decidiosus* Say.
 174 153 *elodes* Say.
 174 154 *exilis* Lea.
 174 155 *reflexus* Say.
 174 *156 *stagnalis* Lam.

Page. No.

Lymneus—

- 174 157 *umbrosus* Say.
 174 158 *Melania caniculata* Say.
 174 159 *conica* Say.
 174 160 *depygis* Say.
 174 *161 *isogonica* Say.
 174 162 *Sayii* Wood.
 174 *163 *Anculosa preros*a Say.
 174 *164 *Valvata sincera* Say.
 174 *165 *tricarinata* Say.
 174 166 *Paludina decisa* Say
 174 *167 *granosa* Say.
 175 *168 *heterostroph*a Kirtl.
 175 *169 *microstoma* Kirtl.
 200 170 *ponderosa* Say.

Sager.—Report of Dr. ABM. SAGER, Zoologist of the Geological Survey [of Michigan]. Detroit, Jan. 12, 1839. [Without descriptions.]

MOLLUSCA.**CLASS CONCHIFERA.****Section Lamellipoda.**

Page.

- 13 *Cyclas similis* Say.

Page.

- 13 *Cyclas dubiosa* Say.

NAIADAE. FRESH WATER BIVALVES.

- 13 *Unio plicatus* Say.
 13 *alatus* Say.
 13 *purpureus* Say.
 13 *fasciolaris* Raf.
 13 *undulatus* Barnes.
 13 *multiradiatus* Lea.
 13 *circulus* Lea.
 13 *penitus* Conr.
 13 *lapillus* Say.
 13 *compressus* Lea.
 13 *triangularis* Barnes.
 13 *cariosus* Say.
 13 *fragilis* Raf.
 13 *subrotundus* Lea.
 13 *coelatus* Conr.
 13 *iris* Lea.

- 13 *Unio Hildrethianus* Lea.
 13 *siliquoideus* Barnes.
 13 *nasutus* Say.
 13 *rectus* Lam.
 13 *dilatatus* Raf.
 13 *tuberculatus* Raf.
 13 *bullatus* Raf.
 13 *olivarius* Raf.
 13 *rubiginosus* Lea.
 13 *gibbosus* Raf.
 13 *ventricosus* Barnes.
 13 *Anodonta Ferussaciana* Lea.
 13 *cataracta* Say.
 13 *Alasmodonta marginata* Say.
 13 *undulata* Say.
 13 *edentula* Say.

CLASS **MOLLUSCA.**Order **Gasteropoda.****PHYLLIDIANA.**

Page.

14 *Patella.*Order **Trachelipoda.****COLIMACEA.**

Page.

14 *Helix solitaria Say.*14 *albolabris Say.*14 *zaleta Say.*14 *multilineata Say.*14 *clausa Say.*14 *fraterna Say.*14 *fallax Say.*14 *hirsuta Say.*14 *perspectiva Say.*14 *palliata Say.*14 *inflecta Say.*14 *thyroidus Say.*14 *fraterna Say.*14 *Helix ligera Say.*14 *fuliginosa Say.*14 *concava Say.*14 *profunda Say.*14 *alternata Say.*14 *tridentata Say.*14 *inornata Say.*14 *elevata Say.*14 *arboreus Say.*14 *Pupa ovata Say.*14 *Succinea ovalis Say.*14 *campestris Say.***LYMNEANA.**14 *Planorbis trivolvis Say.*14 *exacuus Say.*14 *campanulatus Say.*14 *bicarinatus Say.*14 *Physa heterostropha Say.*15 *Physa elongata Say.*15 *Lymneus columellus Say.*15 *elodes Say.*15 *desidiosus Say.*15 *stagnalis.***MELANIANA.**15 *Melania Virginica Say.*15 *Melania depygis Say.***PERISTOMIANA.**15 *Valvata tricarinata Say.*15 *sincera Say.*15 *Paludina decisa Say.*15 *ponderosa Say.*

De Kay.—Catalogue of the Animals belonging to the State of New York, as far as they have been figured and described: by J. E. DE KAY. Assembly No. 50. Jan. 1, 1839. (No descriptions.)

MOLLUSCA.

Page.

12 *Loligo punctata.*12 *Helix thyroidus.*12 *albolabris.*

Page.

12 *Helix monodon.*12 *hirsuta.*12 *tridentata.*

Page.		Page.	
12	<i>Helix alternata</i> .	12	<i>Alasmodonta undulata</i> .
12	<i>Limneus</i> .	12	<i>Unio purpureus</i> .
12	<i>Melampus bidentatus</i> .	12	<i>cariosus</i> .
12	<i>Turbo rudis</i> .	12	<i>ochraceus</i> and var.
12	<i>palliatu</i> s.	12	<i>Cardita borealis</i> .
12	<i>irroratus</i> .	12	<i>Cardium Mortoni</i> .
12	<i>neretoides</i> .	12	<i>pinnatulum</i> .
12	<i>Scalaria lineata</i> .	12	<i>Donax fossor</i> .
12	<i>Paludina disscisa</i> .	12	<i>Astarte castanea</i> .
12	<i>Natica heros</i> .	12	<i>Venus gemma</i> .
12	<i>duplicata</i> .	12	<i>mercenaria</i> .
12	<i>Crepidula fornicata</i> .	12	<i>notata</i> .
12	<i>plana</i> .	12	<i>Cytherea convexa</i> .
12	<i>Nassa trivittata</i> .	12	<i>Petricola pholadiformis</i> .
12	<i>obsoleta</i> .	12	<i>Mactra lateralis</i> .
12	<i>Columbella avara</i> .	12	<i>solidissima</i> .
12	<i>Ranella caudata</i> .	12	<i>Mya arenaria</i> .
12	<i>Fusus cinereus</i> .	12	<i>Lyonsia hyalina</i> .
12	<i>Chiton inermis</i> .	12	<i>Anatina dubia</i> .
12	<i>Anomia ephippium</i> .	12	<i>Solemya velum</i> .
12	<i>Arca pexata</i> .	12	<i>Pandora trilineata</i> .
12	<i>transversa</i> .	12	<i>Solecurtus caribeus</i> .
12	<i>Modiolus papuanus</i> .	12	<i>costatus</i> .
12	<i>demissus</i> .	12	<i>Sanguinolaria fusca</i> .

De Kay.—(Same as last. Dec. 1839.)

CLASS V. **MOLLUSCA.**

Order I. **Cephalopoda.**

Page.		Page.	
31	<i>Loligo punctata</i> , n. sp.	31	<i>Loligo Pealeii</i> .

Order II. **Pteropoda.**

31	<i>Clio borealis</i> .
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Order III. **Gasteropoda.**

† **PULMONEA.**

31	<i>Limax lineatus</i> , n. sp.	31	<i>Helix pallata</i> .
31	<i>marmoratus</i> , n. sp.	31	<i>minuta</i> .
31	<i>Helix thyroidus</i> .	31	<i>hirsuta</i> .
31	<i>albolabris</i> .	31	<i>clausa</i> .
31	<i>tridentata</i> .	31	<i>perspectiva</i> .
31	<i>appressa</i> .	31	<i>elevata</i> .

Page.		Page.	
31	Helix zaleta.	31	Auricula borealis.
31	dentifera.	31	Planorbis trivolvis.
31	subglobosa.	31	bicarinatus.
31	scabra.	31	campanulatus.
31	arborea.	31	parvus.
31	glaphyra.	31	exacius.
31	lineata.	32	armigerus.
31	fallax.	32	megastoma, n. sp.
31	fraterna.	32	niger n. sp.
31	diodonta.	32	Lymnea catascopium.
31	inornata.	32	desidiosa.
31	indentata.	32	macrostoma.
31	gularis.	32	reticulata n. sp.
31	ligera.	32	reflexa.
31	concava.	32	appressa.
31	profunda.	32	elodes.
31	Pupa corticaria.	32	humilis.
31	exigua.	32	pinguis.
31	pentodon.	32	nigrescens, n. sp.
31	ovata.	32	modicellus.
31	Succinea obliqua.	32	gracilis, n. sp.
31	putris.	32	Physa heterostropha.
31	lineata, n. sp.	32	ancillaria.
31	ovalis.	32	fragilis n. sp.
31	Auricula cornea.	32	elliptica.
31	lineata.		

†† NUDIBRANCHIATA.

32	Doris.	32	Cavolina salmonacea.
32	Tritonia Reynoldsi.	32	Tergipes gymnota.
32	Eolis bostoniensis.		

††† INFEROBRANCHIATA, not observed.

†††† TECTIBRANCHIATA.

32	Bulla fluviatilis.	32	Bulla oryza.
32	insculpta.	32	triticea.

††††† HETEROPODA, not observed.

††††† PECTINIBRANCHIATA.

32	Turbo obligatus.	32	Turbo minutus.
32	irroratus.	32	cinereus.
32	vestitus.	32	multilineatus n. sp.
32	palliatus.	32	Lacuna fusca.
32	inflatus.	32	Pleurotoma bicarinata.
32	incarnatus.	32	Turritella interrupta.

Page.		Page.	
32	<i>Scalaria subulata.</i>	32	<i>Galericulum.</i>
32	<i>Valvata tricarinata.</i>	32	<i>Calyptraea.</i>
32	<i>sincera.</i>	32	<i>Sigaretus glaber.</i>
32	<i>Paludina dissocia.</i>	32	<i>Velutina rupicola.</i>
32	<i>porata.</i>	32	<i>Cryptostoma.</i>
32	<i>lustrica.</i>	32	<i>Marginella carnea.</i>
32	<i>heros</i> n. sp.	32	<i>Trichotropis.</i>
32	<i>Ampullaria paludosa.</i>	32	<i>Cancellaria leonthocyl.</i>
32	<i>Melania multilineata.</i>	32	<i>Buccinum undatum.</i>
32	<i>Lamina trifida.</i>	32	<i>Nassa obsoleta.</i>
32	<i>exigua.</i>	32	<i>trivittata.</i>
32	<i>Natica duplicata.</i>	32	<i>Purpura lapillus.</i>
32	<i>heros.</i>	32	<i>imbricata.</i>
32	<i>triseriata.</i>	33	<i>bizonalis.</i>
32	<i>pusilla.</i>	33	<i>Pasithea nigra.</i>
32	<i>consolidata.</i>	33	<i>Ranella caudata.</i>
32	<i>immaculata.</i>	33	<i>Fusus corneus.</i>
32	<i>Crepidula glauca.</i>	33	<i>cinereus.</i>
32	<i>fornicata.</i>	33	<i>decemcostatus.</i>
32	<i>plana.</i>	33	<i>Fulgur canaliculatus.</i>
32	<i>convexa.</i>		

+++++ SCUTIBRANCHIATA.

- 33 *Fissurella greca.*

+++++ CYCLOBRANCHIATA.

33	<i>Patella alveus.</i>	33	<i>Chiton pectinatus.</i>
33	<i>candida.</i>	33	<i>fulminatus.</i>
33	<i>amena.</i>	33	<i>sagrinatus.</i>
33	<i>Ancylus rivularis.</i>		

Order IV. **Acephala.**

† TESTACEA.

33	<i>Ostrea borealis.</i>	33	<i>Modiola papuana.</i>
33	<i>Virginica.</i>	33	<i>glandula.</i>
33	<i>Pecten concentricus.</i>	33	<i>Anodonta cataracta.</i>
33	<i>Anomia ephippium.</i>	33	<i>marginata.</i>
33	<i>Arca pexata.</i>	33	<i>Pennsylvanica.</i>
33	<i>transversa.</i>	33	<i>plana.</i>
33	<i>incongrua.</i>	33	<i>benedictensis.</i>
33	<i>Nucula semisulcata.</i>	33	<i>fragilis.</i>
33	<i>myalis.</i>	33	<i>subcylindracea.</i>
33	<i>Mytilus edulis.</i>	33	<i>edentula.</i>
33	<i>cubitus.</i>	33	<i>Ferussaciana.</i>
33	<i>striatus.</i>	33	<i>Alasmodonta rugosa.</i>

Page.		Page.	
33	Alasmodonta undulata.	33	Venus preopaca.
33	marginata.	33	inequalis.
33	arcuata.	33	gemma.
33	Unio complanatus.	33	Astarte castanea.
33	radiatus.	34	daumoniensis.
33	occidens.	34	Cytherea convexa.
33	luteolus.	34	Petricola pholadiformis.
33	compressus.	34	Corbula.
33	nasutus.	34	Mactra solidissima.
33	ochraceus.	34	subtriangularis.
33	cariosus.	34	lateralis.
33	novi-eboraci.	34	tellinoides.
33	heterodon.	34	nucleus.
33	crassus.	34	Amphidesma corbuloides.
33	gracilis.	34	Mya arenaria.
33	Cardita borealis.	34	Lutraria.
33	Cardium Mortoni.	34	Anatina pretensis.
33	pinnatum.	34	papyratia.
33	pubescens.	34	Solemya velum.
33	grælandicum.	34	borealis.
33	Donax fossor.	34	Glycimeris siliqua.
33	Cyclas similis.	34	Pandora trilineata.
33	dubia.	34	Saxicava distorta.
33	partumeia.	34	Solen ensis.
33	rhomboida.	34	viridis.
33	Cyprina islandica.	34	Solecurtus costatus.
33	Tellina tenera.	34	fragilis.
33	sordida.	34	caribæus.
33	lateralis.	34	Sanguinolaria fusca.
33	versicolor.	34	Pholus crispata.
33	Venus mercenaria.	34	lamellata.
33	notata.	34	Teredo navalis.

†† **NUDA.**

34	Ascidea rustica.	34	Ascidea ovalis.
34	pedunculata.	34	Botryllus stellatus.
34	plicata.	34	Polyclinum.

Order V. **Brachiopoda.**34 **Terebratula septentrionalis.**

Russell.—Familiar Notice of some of the Shells found in the limits of Essex County, Massachusetts, with reference to descriptions and figures: by JOHN LEWIS RUSSELL. (From Journal of the Essex Co. Natural History Society, June, 1839.)

[With notes, descriptive and geographical.]

Page.		Page.	
49	<i>Teredo navalis.</i>	60	<i>Anodonta implicata</i> Say.
50	<i>Pholas crispata.</i>	61	<i>Modiola papuana</i> Lam.
50	<i>lamellata</i> Turton.	61	<i>plicatula</i> Lam.
51	<i>Solen ensis.</i>	61	<i>Mytilus edulis.</i>
51	<i>Solecurtus costatus</i> Say.	62	<i>pellucidus.</i>
	<i>Solen costatus</i> Say.	62	<i>Pecten Magellanicus.</i>
51	<i>Glycimeris siliqua.</i>	62	<i>Anomia ehippium</i> L.
51	<i>Mya mercenaria.</i>	63	<i>Terebratula septentrionalis</i>
52	<i>Anatina Leana.</i>		Couth.
52	<i>Mactra gigantea.</i>	63	<i>Chiton fulminatus</i> Couth.
	<i>M. solidissima</i> Say.	64	<i>Patella alveus</i> Conr.
53	<i>arctata</i> Conr.		<i>Patelloidea</i> Guimard.
53	<i>tellinoides</i> Conr.	64	<i>amœna</i> Say.
53	<i>Solemya velum.</i>		<i>Patelloidea</i> Guimard.
54	<i>Sanguinolaria fusca</i> Conr.	64	<i>Crepidula fornicata.</i>
54	<i>Pandora trilineata</i> Say.	65	<i>plana</i> Say.
54	<i>Saxicava distorta</i> Say.	65	<i>Ancylus rivularis</i> Say.
55	<i>Petricola fornicata.</i>	66	<i>Velutina rupicola.</i>
	<i>P. pholadiformis</i> Lam.		<i>Oxynoë glabra</i> Couth.?
56	<i>Tellina polita.</i>	67	<i>Natica heros</i> Say.
56	<i>tenera</i> Say.	67	<i>triseriata.</i>
56	<i>sordida</i> Couth.	67	<i>consolidata</i> Couth.
57	<i>Astarte castanea</i> Say.	67	<i>Melampus bidentatus</i> Mont.
	<i>Crassina</i> Lam.	68	<i>Iacuna pertusa</i> Conr.
	<i>Venus castanea</i> Say.	68	<i>Nassa obsoleta</i> Say.
57	<i>Cyprina Islandica</i> Lam.	68	<i>trivittata.</i>
58	<i>Venus mercenaria.</i>	69	<i>Trichotropis costellatus.</i>
58	<i>gemma</i> Tott.	69	<i>Buccinum undatum.</i>
58	<i>Cardium pinnulatum</i> Conr.	69	<i>Purpura lapillus.</i>
58	<i>Nucula limatula</i> Say.		<i>Buccinum lapillus</i> Lin.
58	<i>tenuisulcata</i> Couth.	70	<i>imbricata</i> Lam.
59	<i>myalis</i> Couth.	70	<i>Fusus decemcostatus</i> Say.
59	<i>Unio complanatus</i> Lea.	70	<i>corneus</i> Say.
	<i>U. purpureus.</i>	71	<i>cinereus</i> Say.
60	<i>radiatus</i> Say.	71	<i>harpularius</i> Couth.
60	<i>nasutus</i> Say.	71	<i>Turritella erosa</i> Couth.
60	<i>Anodonta cataracta.</i>	72	<i>Turbo palliatus</i> Say.

Page.		Page.	
72	<i>Turbo vestita</i> Say.	74	<i>Rostellaria occidentalis</i>
72	<i>obligatus</i> Say.		<i>Guérin.</i>
73	<i>inflatus</i> Tott.	74	<i>Pyramis striatulus</i> Couth.
73	<i>minutus</i> Tott.	75	<i>Modiola discrepans</i> Mont.
73	<i>incarnatus</i> Couth.	75	<i>Thracia</i> Conradi.
73	<i>cinereus</i> Couth.	75	<i>Bulla triticea</i> Couth.
74	<i>obscurus</i> Couth.	75	<i>Scalaria subulata</i> Couth.
74	<i>Cancellaria buccinoides</i> Cou.	76	<i>Solemya borealis</i> Totten.

Conrad.—Observations on the Genus *Gnathodon*, with description of a New Species: by T. A. CONRAD. (From Am. Journ. Sci. and Art, O. S., vol. xxxviii, No. 1, Oct.–Dec., 1839.)

Page.	Name.	Locality.
92	<i>Gnathodon cuneata</i> .	Gulf of Mexico.
92	<i>Grayi</i> (fossil).	Yorktown, Va.
92	<i>flexuosa</i> Conr. (with a figure).	Florida.

Adams.—Description of Shells: by Prof. C. B. ADAMS. (From same, vol. xxxix, No. 2, 1840.)

Page.	Name.	Locality.
373	<i>Cerithium terebrale</i> Adams.	New Bedford.
374	<i>Planorbis virens</i> Adams.	New Bedford.
374	<i>Limnæa acuminata</i> Adams.	New Bedford & Woburn, Mass.
374	<i>umbilicata</i> Adams.	New Bedford.
374	<i>pallida</i> Adams.	Shoreham, Vt.
375	<i>Cyclas elegans</i> Adams.	

Adams.—Shells of Fresh Pond: by Prof. C. B. ADAMS. (From same, vol. xxxvi, No. 2, 1839. No descriptions.)

Page.		Page.	
392	<i>Unio nasutus</i> .	392	<i>Valvata tricarinata</i> .
392	<i>complanatus</i> .	392	<i>Succinea ovalis</i> .
392	<i>radiatus</i> .	392	<i>Lymnea heterostropha</i> .
392	<i>Anodonta implicata</i> .	392	<i>columellaris</i> .
392	<i>Cyclas similis</i> .	392	<i>catascopium</i> .
392	<i>Planorbis trivolvus</i> .	392	<i>Physa heterostropha</i> .
392	<i>bicarinatus</i> .	392	<i>Paludina decisa</i> .
392	<i>deflectus</i> ?	392	<i>lustrica</i> ?
392	<i>hirsutus</i> , n. s. (descrip.)		
392	<i>Anodonta cataracta</i> = <i>A. implicata</i> .		

Tappan.—Description of some New Shells: by BENJ. TAPPAN, Steubenville, Ohio. (In Am. Journal Science, O. S., vol. xxxv, No. 2. Date of title-page, Jan. 1839.)

Page.	Pl.	Fig.	Name.	Locality.
268	iii	1	<i>Unio Sayli Ward.</i>	Cireleville.
269	iii	2	<i>Paludina heterostropha Kirtland.</i>	Mahoning river.
269	iii	3	<i>Physa Sayli Tappan.</i>	Lake Pepin, Ohio.

Jay.—A Catalogue of the Shells, arranged according to the Lamarekian System: together with descriptions of new or rare species contained in the collection of JOHN C. JAY, M. D. Illustrated by several plates. 3d edition, 4to. pp. 126. New York, 1839.

[Vide the fourth edition. The following species are described]:—

Page.	Pl.	Fig.	Name.	Locality.
112	i	8, 9	<i>Paludina scalaris Jay.</i>	Everglades of Florida.
112	i	10, 11	<i>Lymnæa gracilis Jay.</i>	Essex County, N. Y.
113	i	17, 18	<i>Trichotropis costulatus Couth.</i>	Massachusetts Bay.
	iii	7	<i>Ampullaria scalaris Orb.</i>	Mexico.
	v	1, 2	<i>Unio spinosus Lea.</i>	Altamaha river.
122	vii	11	<i>Melania læta Jay.</i>	Alabama.

Couthouy.—Monograph of Osteodesmacea, &c.: by J. P. COUTHOUY. (From Am. Journ. Sci. and Art, O. S., vol. xxxvi, April–July, 1839.) Descriptions of the following American species:—

Page.	Name.	Locality.
383	<i>Thracia Conradi Couth.</i> <i>T. declivis</i> Conrad, non Pennant. <i>Anatina convexa</i> Hitchcock's Rep. <i>Thracia corbuloides</i> Kiener.	New England.
384	<i>Osteodesma hyalina Couth.</i> <i>Mya hyalina</i> Conrad. <i>Amphidesma corbuloides</i> Hitchcock's Rep.	
385	<i>Eolis diversa Couth.</i>	Massachusetts Bay.
385	<i>Cochleodesma Couth. (n. g.)</i> ex. <i>Anatina Leana</i> Conr.	
389	<i>Nucula navicularis Couth.</i>	Massachusetts Bay.
389	<i>Bulla lineolata Couth.</i>	Massachusetts Bay.

Page.	Name.	Locality.
390	<i>Bulla hiemalis</i> Couth.	Massachusetts Bay.
390	<i>Gouldii</i> Couth.	Massachusetts Bay.
390	<i>Pleurotoma decussata</i> Couth.	Massachusetts Bay.
390	<i>Anculotus dentatus</i> Couth.	Potomac, Va.

C. B. Adams —(From same.) Notes on the following shells, and descriptions of new species:—

Page	Name.	Locality.
387	<i>Columbella avara</i> Say.	Massachusetts.
387	<i>Buccinum vibex</i> Say. (<i>Nassa</i> .)	Massachusetts.
387	<i>trivittatum</i> Say. (<i>Nassa</i> .)	Massachusetts.
387	<i>obsoletum</i> Say. (<i>Nassa</i> .)	Massachusetts.
388	<i>Purpura lapillus</i> L.	Massachusetts.
388	<i>Fusus cinereus</i> Say.	Massachusetts.
388	<i>Ranella caudata</i> Say.	Massachusetts.
388	<i>Jaminia seminuda</i> Adams.	Dartmouth.
388	<i>Pyramis fusca</i> Adams.	New Bedford.
388	<i>Cerithium Emersonii</i> Adams.	New Bedford, &c.
388	<i>nigrocinctum</i> Adams.	Dartmouth.

A. A. Gould, M. D.—(From same, vol. xxxvii, July–October, 1839.)

Page.	Name.	Locality.
392	<i>Helix aspersa</i> Mull.	Portland, Maine.

Haldeman.—A Monograph of the Limniades and other fresh-water Univalve Shells of North America: by S. STEHMAN HALDEMAN, Member Phila. Acad. Nat. Sci., Philadelphia.

No. I.—July, 1840.

Pa.	Pl.	Fig.	Name.	Locality.
4	i		<i>Paludina decisa</i> Say.	Ohio riv., N.J. streams;
			<i>P. heterostropha</i> Kirtland.	Del., Schuylkill, Sus-
			<i>limosa</i> Val.	quehanna rivs.; New
			<i>cornea</i> Val.?	Engl., O.; Fox, Nola-
			<i>ponderosa</i> , jun. Desh.?	chucky, Tenn. rivs.;
				N. W. Terr.
8	ii		<i>subcarinata</i> Say.	Ohio, Del., Schuylkill,
			<i>Helix decisa</i> Wood.	and Susq. rivers.
			<i>P. carinata</i> Val. (removed in errata).	

Pa.	Pl.	Fig.	Name.	Locality.
10	iii		<i>Paludina integra</i> Say.	S. C., O., Miss. r. in Ia.
13	iv		<i>ponderosa</i> Say.	O., Ind., Ill., Tenn., Ala.
15	v		<i>genicula</i> Contr.	Flint river, Ga.
4	of cover		<i>Anculosa littorina</i> Hald.	Holston river, Va.
4	"		<i>Cerithium (Potamids) Californicum</i> Hald.	California.
4	"		<i>Cyclas elevata</i> Hald.	New Orleans.
4	"		Genus <i>Discus</i> (<i>Planorbis armigerus</i>).	

No. II.—January, 1841.

17	vi		<i>Paludina vivipara</i> Lin.	Fla., Ala., Ind., Mo.,
			<i>P. lineata</i> Val.	Mich., Cuba.
23	vii	1-2	<i>Georgiana</i> Lea.	Hopeton, Ga.
24	vii	3,4	<i>Bengalensis</i> Lam.	Florida.
			<i>P. fasciata</i> Bowd.	
			<i>elongata</i> Swains.	
			<i>multilineata</i> Say.	
26	viii		<i>carinata</i> Val.	Mexico.
28	ix		<i>subpurpurea</i> Say.	Wabash, S. Louis, Wis.
31	x	1-6	<i>intertexta</i> Say.	New Orleans; S. C.
			<i>P. transversa</i> Say.	
3	of cover		<i>Melania rufula</i> Hald.	Lake Pepin.
3	"		<i>Physa fontana</i> Hald.	Pennsylvania.
3	"		<i>Ancylus parallelus</i> Hald.	Vermont.
3	"		Subgenus <i>Angitrema</i> (Ex. <i>Melania armigera</i> Say.)	
3	"		<i>Melania costifera</i> Hald.	Illinois.
3	"		<i>Helix dissimilis</i> Wood = <i>Pal. decisa</i> .	
3	"		<i>Pal. decisa</i> .	N. Y., Va., N. C.
3	"		<i>Helix decisa</i> Wood = <i>Pal. subcarinata</i> .	
3	"		<i>Pal. subcarinata</i> .	Tennessee.

No. III.—July, 1841.

Subgenera of LIMNEA.

5			<i>Limnea</i> Lam.	
5			<i>Radix</i> Mont.	
6			<i>Laptolimnea</i> Swainson.	
6			<i>Bulimnea</i> Hald.	
6			<i>Acella</i> Hald.	
6	i		<i>Limnea catascopium</i> Say.	Mass., N. York, N. W.
			<i>L. pinguis</i> Say?	Terr., Canada, Dela-
			<i>cornea</i> Val.	ware and Schuylkill
			<i>Virginiana</i> Lam.?	rivers, Oregon.
10	ii		<i>emarginata</i> Say.	N. W. Terr., Maine.
10			<i>serrata</i> Hald. (n. sp.?)	

Pa.	Pl.	Fig.	Name.	Locality.
13	iii	1-3	Limnea megasoma Say.	N. W. Terr., Vermont.
15	iii	4-5	rugosa Val.	Mexico.
16	iv		jugularis Say.	N. York, Mich., N. W.
			<i>L. speciosus</i> Rossm.	Terr., Oregon.
			<i>stagnalis</i> (Sill. Journ.)	
3 of cover			Paludina rufa Hald. (pl. iii, fig. 1.)	
3	"		Anculosa fusca Hald.	Oregon.
3	"		Ancylus (Velletea) Nuttalli Hald.	Oregon.
3	"		diaphanus Hald.	Ohio.
3	"		Limnæa ferruginea Hald.	Oregon.
3	"		Physa (Diastrophia) integra Hald.	Indiana.
3	"		Melania varicosa Ward.	Ohio.
			<i>M. rufula</i> Hald. (var.?)	
3	"		Bulimus vermetus Anthony.	Ohio.
3	"		Melania inflata Hald.	Alabama river.
3	"		curta Hald.	Ohio river.
3	"		Physa concolor Hald.	Oregon.
3	"		Anculosa (Mudalia) affinis Hald.	Ohio.
4	"		Paludina vitula Raf. = P. Bengalensis .	
4	"		Physa osculans = heterostrophia ?	

No. IV.—January, 1842.

18	v		Limnea appressa Say.	Lake Superior to New
			<i>L. speciosus</i> Ziegl.	England.
20	vi		fragilis Lin.	N. W. Terr., Can., Me.,
			<i>L. elodes</i> Say.	Mass., N. Y., L. Erie,
			<i>palustris</i> Sowb.	Ohio, Pa., Oregon.
24	vii		umbrosa Say.	Mo., N. Y., Ohio, Ind.,
			<i>L. elongatus</i> Say.	Ill., Upper Canada.
26	viii		reflexa Say.	Ohio, Ind., Ill., N. Y.,
			<i>L. palustris</i> var. <i>distortus</i> Rossm.	Lakes Erie and Sup.
			<i>exilis</i> Lea.	
28	ix	1-5	attenuata Say.	Mexico.
29	ix	6-8	expansa Hald.	Vermont.
31	x		desidiosa Say.	New England to Miss.
			<i>L. obrussa</i> Say?	river; lat. 35° to 45°.
			<i>acuta</i> Lea.	
			<i>Philadelphica</i> Lea.	
3 of cover			Anculosa crassa Hald.	Clinch river? Tenn.
3	"		Melania æqualis Hald.	Nolachucky river.
3	"		uncialis Hald.	Beaver cr., N. E. Tenn.
3	"		symmetrica Hald.	Roanoke river, Va.
3	"		bellacrenata Hald.	Alabama.
3	"		Limnea vitrea Hald.	
3	"		Amnicola attenuata Hald.	Montgomery Co., Va.

Pa.	Pl.	Fig.	Name.	Locality.
3	of cover		Amnicola pallida <i>Hald.</i>	Vermont.
4	"		galbana <i>Hald.</i> (fossil.)	Sussex Co., N. Jersey.
4	"		Sayana <i>Anthony.</i>	
4	"		Melania gracilis vel pulchella <i>Anthony.</i>	Stark Co., O.
4	"		approximata <i>Hald.</i>	Tennessee.
4	"		intersita <i>Hald.</i>	Swan creek, Ind.
4	"		Physa globosa <i>Hald.</i>	Nolachucky river.
4	"		Amnicola pallida <i>Hald.</i>	Middlebury, Vt.
4	"		Paludina carinata <i>Val.</i> (vide supra) = P. multicarinata.	
4	"		Pal. carinata <i>Sw.</i> = P. unicarinata.	

Part V.—July, 1842.

34	xi	1-9	Limnea caperata <i>Say.</i> <i>L. umbilicata</i> Adams.	Vt., Mass., Ind., Ohio, Ill., Pa.
36	xi	10-13	solida <i>Lea.</i> <i>L. apicina</i> <i>Lea.</i>	Oregon.
38	xii		columella <i>Say.</i> <i>L. chalybea</i> Gould. <i>navicula</i> Val. <i>acuminata</i> Adams. <i>macrostoma</i> <i>Say.</i> <i>coarctata</i> <i>Lea.</i> <i>succiniformis</i> Adams, MSS.	Me., Mass., Pa., Ohio, S. C., N. W. Terr.
41	xiii	1-8	humilis <i>Say.</i> <i>L. modicellus</i> <i>Say.</i> <i>parva</i> <i>Lea?</i>	Me. to S. C., Ohio.
44	xiii	9, 10	bulimoides <i>Lea.</i>	Oregon.
45	xiii	11-13	pallida Adams.	Vermont.
47	xiii	14, 15	vitrea <i>Hald.</i>	Ohio? Missouri?
48	xiii	16-18	desidiosa? <i>L. obrussa</i> <i>Say.</i>	Philadelphia.
49	xiii	19, 20	ferruginea <i>Hald.</i>	Oregon.
50	xiii	21	gracilis <i>Jay.</i>	Lake Champlain.
51	xiii	22, 23	galbana <i>Say</i> (fossil?).	New Jersey.
52	xiv		catascopium? <i>L. decollata</i> Mighels.	Maine.
53	xv	1	fragilis <i>Lin.</i> <i>L. Nuttalli</i> <i>Lea.</i>	Oregon.

No. VI.—January, 1843.

23	i		Physa heterostropha <i>Say.</i>	Ga., Me., Oregon, N.W.
	ii	1-9	<i>Lymnea heterostropha</i> <i>Say.</i> <i>Bulla fontinalis</i> Chem.?	Terr., Canada.

Pl.	Fig.	Name.	Locality.
		<i>crassula</i> Dillw.?	
		<i>Physa aurea</i> Lea.	
		<i>fontana</i> Hald.	
27	iii 1-10	ancillaria Say.	Del. and Conn. rivers.
		<i>P. Sayii</i> Tappan.	
29	ii 11-13	osculans Hald.	Mexico? India?
		<i>Bulla fontinalis</i> Chem.?	
30	ii 10	concolor Hald.	Oregon.
31	iii 11-13	fragilis Mighels.	Maine.
32	iii 1-6	gyrina Say.	Mo., Ind., Ohio, Ver't,
		<i>P. elliptica</i> Lea.	Georgia.
33	iv 7-8	integra Hald.	Indiana.
34	iv 9	scalaris Jay.	Florida.
35	v 1-3	distorta Hald.	Mo., Ohio, Ky.
36	v 4-9	hypnorum Lin.	Mass., Vt., N. Y., West.
		<i>P. elongata</i> Say.	States, Oregon.
		<i>Aplexa hypnorum</i> Gray, &c.	
38	v 10-12	globosa Hald.	Nolachucky river.
		<i>Physella globosa</i> Hald.	
39	iv 12-14	microstoma Hald.	Kentucky, Ohio.
		<i>Physodon microstoma</i> Hald.	
4 of cover		<i>P. striata</i> and <i>P. subarata</i> Mke. = P. heterostropha ?	
4	"	<i>Melania cruentata</i> Mke. = Anculosa præerosa Say.	
4	"	<i>livescens</i> Mke., <i>curta</i> Mke., and <i>fusciata</i> Mke. = M. Virginica .	
4	"	<i>Wardneriana</i> Lea = M. simplex Say.	
4	"	<i>acuto-carinata</i> Lea = M. simplex Say.	
4	"	<i>Hildrethiana</i> Lea = M. obovata Say.	
4	"	<i>globula</i> Lea = M. subglobosa Say.	
4	"	<i>virgata</i> Lea = M. subglobosa Say.	
4	"	<i>Cincinnatiensis</i> Lea = Anculosa præerosa Say.	
4	"	<i>Anculosa dentata</i> Lea = A. dentata Couthouy.	
4	"	<i>Melania catenaria</i> Lea (name preoc.)	
4	"	<i>Lymnea fusiformis</i> Lea (name preoc.)	
4	"	<i>Io tenebrosa</i> Lea = Fusus fluviatilis Say.	
4	"	<i>Melania Kirtlandiana</i> Lea = M. exilis Hald.	
4	"	<i>Paludina angulata</i> Lea	} = P. magnifica Conr.
4	"	<i>coosüensis</i> Lea	
4	"	<i>bimonilifera</i> Lea	

No. VII.—January, 1844.

6	i 1-6	Planorbis bicarinatus Say.	N. Engl. to Ga., N. W.
		<i>Helix angulatus</i> Rackett.	Terr. to Tenn.
		<i>P. engonatus</i> Conr.	
		<i>Helisoma bicarinata</i> Swainson.	

Pa.	Pl.	Fig.	Name.	Locality.
9	i	7-11	Planorbis campanulatus Say.	N. Engl., N. Y., Ohio, Ill., N. W. Terr.
11	ii	1-3	glabratus Say.	S. Car., Mexico? New Orleans, Oregon.
13	ii	4-7	trivolvus Say. <i>P. corpulentus</i> Whittemore. <i>regularis</i> Lea. <i>Bulla fluviatilis</i> Say.	New England, N. Y., Pa., N. W. Terr.
15	iii	1-3	trivolvus var. fallax . <i>P. lentus</i> Gould.	Mass., Lake Erie, Ind.?
18	iii	4-6	lentus Say.	New Orleans, S. C.
19	iii	7-9	corpulentus Say.	N. W. Terr., Oregon.
21	iv	1-3	exacutus Say. <i>P. exacuus</i> Say (err. typ.) <i>lens</i> and Brogniarti Lea. <i>Paludina hyalina</i> Lea.	New England, N. York, Western States.
23	iv	16-18	dilatatus Gould. (preoc.?) <i>P. dilatus</i> Hald.	Mass., O., Del. riv., Md.
25	iv	4-7	deflectus Say. <i>P. virens</i> Adams.	New England, Ohio, N. W. Terr.
27	iv	19-23	parvus Say. <i>P. elevatus</i> Adams.	East., Midd., & West. States, N. W. Terr.
29	iv	8-10	albus Müller. <i>P. hispidus</i> Drap. <i>hirsutus</i> Gld.	N. England, Lake Su- perior, &c.
30	iv	11-15	armigerus Say.	East., West., & Midd. States, N. W. Terr.
4	i	1	Ancylus rivularis Say.	Del. and Susq. rivers, var. in James river.
6	i	2	depressus Hald.	Holston river, Va.
7	i	3	tardus Say.	Wabash, Vermont.
8	i	4	diaphanus Hald.	Ohio.
9	i	5	obscurus Hald.	Nolachucky river.
10			filosus Conr.	Bl'k Warrior riv., Ala.
11	i	6	parallelus Hald. <i>A. rivularis</i> Gould non Say.	New England.
12	i	7	fuscus Adams.	Fresh pond, Cambridge, Mass.
14	i	8	crassus Hald.	Oregon.
Index— Planorbis parallelus Say. =				
Helix lineata ?				
4	of cover		Amnicola tenuipes Couper.	Hopeton, Ga.
4	"		Melania substricta Hald.	Tennessee.
4	"		conica Say (name restored). <i>substricta</i> Hald. (withdrawn from the species).	
4	"		<i>pilula</i> Lea = Anculosa littorina Hald.	

No. VIII. (No date.)

Pa.	Pl.	Fig.	Name.	Locality.
7	i	2, 3	Amnicola decisa Hald.	Susq. & Schuylk. rivs.
9	i	4	Cincinnatiensis Anthony.	Cincinnati.
			<i>Paludina Cincinnatiensis</i> Anth.	
10	i	5, 6	limosa Say.	Maine to Penn'a and
			<i>Paludina limosa</i> Say.	Ohio.
			<i>Pal. porata</i> Adams & Gould.	
			<i>A. lustrica</i> Hald. in lett.	
12	i	7	pallida Hald.	Lake Champlain.
			<i>Pal. lustrica</i> Adams.	
13	i	8	porata Say.	Cayuga Lake.
			<i>Paludina porata</i> Say.	
15	i	9	galbana Hald. (fossil).	Sussex Co., N. Jersey.
16			lustrica Say.	Cayuga Lake.
			<i>Paludina lustrica</i> Say.	
17			granum Say.	Philadelphia.
			<i>Paludina grana</i> Say.	
18	i	10	lapidaria Say.	East and west of Alle-
			<i>Pal. lapidaria</i> Say.	ghanies.
19	i	11	Sayana Anthony, in lett.	Cincinnati.
			<i>Cyclostoma Cincinnatiensis</i> Lea.	
21	i	12	Nickliniana Lea.	Virginia.
			<i>Paludina Nickliniana</i> Lea.	
22	i	13	attenuata Hald.	Montgomery Co., Va.
			<i>A. elongata</i> in tab.	
23	i	14-15	tenuipes Couper.	Georgia.
24			orbiculata Lea.	Ohio, Philadelphia.
24			parva Lea.	Springfield, Ohio.
24			obtusa Lea (<i>Paludina</i>).	Ohio.
5	i, ii		Ampullaria depressa Say.	Georgia, Florida.
			<i>A. paludosa</i> Say.	
			<i>Hopetonensis</i> Lea.	
8			globosa Swainson.	Florida? Calcutta?
			<i>A. rotundata</i> Say.	
10			flagellata Say.	Mexico.
11			urceus Müller.	Mexico.
			<i>A. rugosa</i> Lam.	
11			Paludina intertexta Say. = Ampullaria?	
11			ponderosa Say, is a true Paludina .	
3	i	1-4	Valvata tricarinata Say.	N. England and Middle
			<i>Cyclostoma tricarinata</i> Say.	States, &c.
			<i>Valvata carinata</i> Sowb.	
			var. simplex Gould.	
			var.? bicarinata Lea.	Schuylkill river.
			var.? unicarinata De Kay.	

Pa. Pl. Fig.	Name.	Locality.
6 i 5-10	<i>Valvata sincera</i> Say.	N. W. Terr., Vermont.
9	<i>humeralis</i> Say.	Mexico.
10 i 11-13	<i>pupoidea</i> Gould.	Boston.

In a Supplement to Part I.—October, 1840.

1	<i>Melania interrupta</i> Hald.	Tennessee.
1	<i>suturalis</i> Hald.	Ohio.
1	<i>exilis</i> Hald.	Kentucky and Ohio.
1	<i>substricta</i> Hald. for <i>M. conica</i> Say, preoce.	

Subgenera of **ANCULOSA**.

1	<i>Anculosa</i> Say.	
1	<i>Lithasia</i> Hald.	
1	<i>Paludomus</i> Sw.	
1	<i>Hemimitra</i> Sw.	
1	<i>Mudalia</i> Hald.	
1	<i>Anculosa</i> (<i>Lithasia</i>) <i>geniculata</i> Hald.	East Tennessee.
2	(<i>Mudalia</i>) <i>turgida</i> Hald.	
2	<i>Limnea platystoma</i> Hald.	Vermont.
2	<i>expansa</i> Hald.	Vermont.
2	<i>Physa microstoma</i> Hald.	Kentucky and Ohio.
2	<i>distorta</i> Hald.	Ohio.
2	<i>Discus</i> Hald. = <i>Planorbula</i> Hald.	
2	<i>Spirorbis</i> Swains. = <i>Discus</i> .	
2	<i>Helisoma</i> .	
2	<i>Segmentina</i> .	

Subgenera of **PALUDINA**.

2	<i>Paludina</i> Lam.	
2	<i>Lutella</i> Hald.	
2	<i>Tulotoma</i> Hald.	
2	<i>Nematura</i> Benson.	
3	<i>Amnicola</i> G. and H.	

Specimen number of Haldeman's Monograph.—Jan. 1, 1840.

3 i 1	<i>Planorbis bicarinatus</i> Say.	
6	<i>Anculotus littorina</i> Hald.	Holston river, Va.

Dr. **A. A. Gould**.—(Am. Journal Sci. and Art, O. S., vol. xxxviii. Date of title, April, 1840.)

Page.

193	<i>Delphinula minor</i> Adams = <i>Delphinoidea</i> (<i>Hellx</i>) <i>corpuloides</i> Mont.	
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T. J. Whittemore.—(From same.) Notes on—

Page.	Name.	Locality.
193	<i>Planorbis corpulentus</i> .	Vermont.

DR. A. A. Gould.—(From same.) Descriptions of—

Page.		Page.	
196	<i>Solecortus nitidus</i> Gould.	196	<i>Natica flava</i> Gould.
196	<i>Mactra ovalis</i> Gould.	197	<i>canaliculata</i> Gould.
196	<i>Bulla debilis</i> Gould.	197	<i>Lacuna neritoidea</i> Gould.
196	<i>obstricta</i> Gould.	197	<i>Fusus scalariformis</i> Gould.
196	<i>Limnæa chalybea</i> Gould.	197	<i>tornatus</i> Gould.
196	<i>Valvata pupoidea</i> Gould.	197	<i>Buccinum rosoceum</i> Gould.
196	<i>Planorbis hirsutus</i> Gould.		

Page.	Name.	Locality.
396	Notes on <i>Murex tricolor</i> .	California.
396	“ <i>bicolor</i> .	California.
396	“ <i>Cardium californianum</i> .	California.
396	“ <i>Trochus vittatus</i> .	California.
396	“ <i>Bulimus undatus</i> .	California.

PROF. C. B. Adams.—(From same.)

Page.	Name.	Locality.
396	Notes on <i>Jamina producta</i> Adams.	Andover, Mass.
396	“ <i>Ancylus fuscus</i> Adams.	Andover, Mass.
396	“ <i>Pleurotoma plicata</i> Adams.	New Bedford.
396	“ <i>Tornatella puncto-striata</i> Adams.	New Bedford.
396	“ <i>Pholas costatus</i> .	New Bedford.

Kirtland.—Fragments of Natural History: by J. P. KIRTLAND, M. D., Prof. Theol. and Prac. Phys., in Med. Coll. Ohio, Cincinnati. No. 1. Habits of the Naiades. (Am. Journ. Sci. and Art, O. S., vol. xxxix, No. 1, pp. 164-168. April-June, 1840.

[Notes on sexual difference and byssus, with a list of species of *Unio*, *Alasmodon*, and *Anodon* examined.]

Page.	
165	<i>Unio pileus</i> Lea is male of <i>U. personatus</i> Say.
165	<i>tenuissimus</i> Lea is female of <i>U. velum</i> Say.
165	<i>donaciformis</i> is female of <i>Zigzac</i> .
165	<i>Margaritana deltoidea</i> Lea is male of <i>Alasmodon calceola</i> Lea.
167	<i>Unio zigzag</i> (young), figure a. b.

Anthony.—List of Land and Fresh-water Shells found chiefly in the vicinity of Cincinnati: by J. G. ANTHONY. (No date given; no descriptions.)

No.		No.	
1	<i>Helix albolabris Say.</i>	4	<i>Pupa modesta Say.</i>
2	<i>appressa Say.</i>	1	<i>Succinea avara Say.</i>
3	<i>alternata Say.</i>	2	<i>campestris Say.</i>
4	<i>arborea Say.</i>	3	<i>ovalis Say.</i>
5	<i>concava Say.</i>	1	<i>Valvata sincera Say.</i>
6	<i>chersina Say.</i>	2	<i>tricarinata Say.</i>
7	<i>clausa Say.</i>	1	<i>Amnicola integra Say.</i>
8	<i>elevata Say.</i>	2	<i>lapidaria Say.</i>
9	<i>electrina Gould.</i>	3	<i>lustrica Say.</i>
10	<i>fuliginosa Griff.</i>	1	<i>Cyclostoma Cincinnatiensis</i> <i>Lea.</i>
11	<i>fraterna Say.</i>	1	<i>Anculosa prærosa Say.</i>
12	<i>fallax Say.</i>	1	<i>Physa ancillaria Say.</i>
13	<i>glaphira Say.</i>	2	<i>elongata Say.</i>
14	<i>hirsuta Say.</i>	3	<i>heterostrophæ Say.</i>
15	<i>inornata Say.</i>	4	<i>gyrina Say.</i>
16	<i>indentata Say.</i>	1	<i>Paludina ponderosa Say.</i>
17	<i>inflecta Say.</i>	2	<i>integra Say.</i>
18	<i>interna Say.</i>	3	<i>limosa Say.</i>
19	<i>ligera Say.</i>	4	<i>subcarinata Say.</i>
20	<i>labyrinthica Say.</i>	5	<i>pallida Lea.</i>
21	<i>lineata.</i>	1	<i>Limnea columella Say.</i>
22	<i>limatula Ward.</i>	2	<i>caperata Say.</i>
23	<i>leai Ward.</i>	3	<i>desiduousa Say.</i>
24	<i>minuta Say.</i>	4	<i>elodes Say.</i>
25	<i>multilineata Say.</i>	5	<i>humilis Say.</i>
26	<i>minuscule Binney.</i>	6	<i>jugularis Say.</i>
27	<i>profunda Say.</i>	7	<i>reflexa Say.</i>
28	<i>palliatæ Say.</i>	8	<i>umbrosa Say.</i>
29	<i>perspectiva Say.</i>	1	<i>Planorbis armigerus Say.</i>
30	<i>Pennsylvanica Green.</i>	2	<i>bicarinatus Say.</i>
31	<i>runderata Scuder.</i>	3	<i>campanulatus Say.</i>
32	<i>solitaria Say.</i>	4	<i>corpulentus Say.</i>
33	<i>suppressa Say.</i>	5	<i>concava Anthony.</i>
34	<i>diodonta Say.</i>	6	<i>deflectus Say.</i>
35	<i>thyroideus Say.</i>	7	<i>Brogniartiana Lea.</i>
36	<i>tridentata Say.</i>	8	<i>lentus Say.</i>
37	<i>zæta Say.</i>	9	<i>parvus Say.</i>
38	<i>intertexta Binney.</i>	10	<i>trivolis Say.</i>
1	<i>Pupa armifera Say.</i>	1	<i>Melania canaliculata Say.</i>
2	<i>contracta Say.</i>	2	<i>conica Say.</i>
3	<i>exigua Say.</i>		

No.		No.	
3	<i>Melania depygis</i> Say.	36	<i>Unio metanevra</i> Raf.
4	<i>Kirtlandiana</i> Lea.	37	<i>monodontus</i> Say.
5	<i>excurata</i> Conrad.	38	<i>nasutus</i> Say.
6	<i>gracilis</i> Anthony.	39	<i>occidens</i> Lea.
7	<i>Sayii</i> Wood.	40	<i>Ovatus</i> Say.
8	<i>undulata</i> Say.	41	<i>pustulosus</i> Lea.
9	<i>varicosa</i> Ward.	42	<i>perplexus</i> Lea.
1	<i>Cyclas dubia</i> Say.	43	<i>pyramidatus</i> Lea.
2	<i>partumeia</i> Say.	44	<i>pustulatus</i> Lea.
3	<i>similis</i> Say.	45	<i>pileus</i> Lea.
4	<i>rhomboidea</i> Say.	46	<i>phaseolus</i> Hildreth.
1	<i>Unio alatus</i> Say.	47	<i>parvus</i> Barnes.
2	<i>abruptus</i> Say.	48	<i>personatus</i> Say.
3	<i>anodontoides</i> Lea.	49	<i>plicatus</i> Say.
4	<i>arctior</i> Lea.	50	<i>politus</i> Say.
5	<i>asperimus</i> Lea.	51	<i>ridibundus</i> Say.
6	<i>Æsopus</i> Green.	52	<i>rectus</i> Lam.
7	<i>crassus</i> Say.	53	<i>rangianus</i> Lea.
8	<i>cicatricosus</i> Say.	54	<i>rubiginosus</i> Lea.
9	<i>cylindricus</i> Say.	55	<i>subovatus</i> Lea.
10	<i>circulus</i> Lea.	56	<i>Schoolcraftensis</i> Lea.
11	<i>compressus</i> Lea.	57	<i>securis</i> Lea.
12	<i>coccineus</i> Lea.	58	<i>sulcatus</i> Lea.
13	<i>Cooperianus</i> Lea.	59	<i>siliquoides</i> Barnes.
14	<i>clavus</i> Lam.	60	<i>Sayii</i> Ward.
15	<i>cuneatus</i> Barnes.	61	<i>triangularis</i> Barnes.
16	<i>cornutus</i> Barnes.	62	<i>tuberculatus</i> Barnes.
17	<i>dehiscens</i> Say.	63	<i>torsa</i> Raf.
18	<i>ebenus</i> Lea.	64	<i>trigonis</i> Lea.
19	<i>elegans</i> Lea.	65	<i>tenuissimus</i> Lea.
20	<i>ellipsis</i> Lea.	66	<i>undatus</i> Barnes.
21	<i>fabalis</i> Lea.	67	<i>verrucosus</i> Barnes.
22	<i>formosus</i> Lea.	68	<i>zigzag</i> Lea.
23	<i>foliatus</i> Hildreth.	1	<i>Alasmodonta ambigua</i> Say.
24	<i>fragosa</i> Conrad.	2	<i>calceola</i> Lea.
25	<i>gibbosus</i> Barnes.	3	<i>dectoidea</i> Lea.
26	<i>gracilis</i> Barnes.	4	<i>complanata</i> Lea.
27	<i>Graniferus</i> Lea.	5	<i>rugosa</i> Lea.
28	<i>glans</i> Lea.	6	<i>truncata</i> Say.
29	<i>Hildrethianus</i> Lea.	1	<i>Anodonta edentula</i> Say.
30	<i>heros</i> Say.	2	<i>Ferussaciana</i> Lea.
31	<i>irroratus</i> Lea.	3	<i>Wardiana?</i> Lea.
32	<i>iris</i> Lea.	4	<i>plana</i> Lea.
33	<i>lævissimus</i> Lea.	5	<i>pavonia</i> Lea.
34	<i>lachrymosus</i> Lea.	6	<i>imbecilis</i> Say.
35	<i>multiradiatus</i> Lea.		

Second edition of same. Cincinnati, Jan. 1, 1843.

No.		No.	
1	Amnicola Cincinnatiensis Anthony. <i>Paludina Cincinnatiensis</i> Anthony.	24	Helix elevata Say. <i>H. Knoxvilleana</i> Ferussac.
2	integra Say. <i>Melania integra</i> Say.	25	fallax Say.
3	Amnicola lapidaria Say. <i>Cyclostoma lapidaria</i> Say.	26	fraterna Say. <i>H. monodon</i> Wood. <i>convexa</i> Deshayes.
4	lustrica Say. <i>Paludina lustrica</i> Say.	27	fuliginosa Griffith. <i>H. lucubrata</i> Say. <i>lævigata</i> Ferussac.
5	Sayana Anthony. <i>Cyclostoma Sayana</i> Anth. <i>Cincinnatiensis</i> Lea.	28	hirsuta Say. <i>H. fraterna</i> Wood.
6	Anculosa costata Anthony.	29	indentata Say.
7	isogona Say. <i>Melania isogona</i> Say. <i>Paludina pallida</i> Lea.	30	inflecta Say. <i>H. clausa</i> Ferussac.
8	prærorsa Say. <i>Melania Cincinnatiensis</i> Lea.	31	inornata Say.
9	Ancylus diaphanus Hald.	32	interna Say. <i>H. pomum-Adami</i> Green.
10	rivularis Say.	33	intertexta Binney.
10½	tardus Say.	34	labyrinthica Say.
11	Bullimus lubricus Bruguiere.	35	ligera Say. <i>H. Rafinesquea</i> Ferussac. <i>Wardiana</i> Lea.
12	vermetus Anthony.	36	limatula Ward.
13	Cyclas dubia Say.	37	lineata Say.
14	partumeia Say.	38	minuscule Binney. <i>H. minutissima</i> Lea.
15	similis Say. <i>C. sulcata</i> Lam.	39	monodon Rackett. <i>H. Leaii</i> Ward.
16	Helix albolabris Say.	40	multilineata Say.
17	alternata Say. <i>H. scabra</i> Lam. <i>radiata</i> Gmelin.	41	palliatæ Say. <i>H. obstricta</i> Say. <i>denotata</i> Ferussac. <i>Carocolla helicoides</i> Lea. <i>Carolincensis</i> Lea.
18	appressa Say. <i>H. linguifera</i> Ferussac.	42	Pennsylvanica Green.
19	arborea Say.	43	perspectiva Say. <i>H. parvula</i> Deshayes.
20	clausa Say. <i>H. Mitchelliana</i> Lea. <i>Mobiliana</i> Lea.	44	profunda Say. <i>H. Richardi</i> Lam.
21	chersina Say.	45	pulchella Muller. <i>H. minuta</i> Say. <i>paludosa</i> Montagu.
22	concava Say. <i>H. planorboides</i> Ferussac.	46	Sayii Binney. <i>H. diodonta</i> Say.
23	electrina Gould.		

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|-----|-------------------------------------|-----|------------------------------------|
| No. | | No. | |
| 47 | <i>Helix solitaria</i> Say. | 80 | <i>Planorbis campanulatus</i> Say. |
| 48 | <i>striatella</i> Anthony. | 81 | <i>concavus</i> Anthony. |
| 49 | <i>suppressa</i> Say. | 82 | <i>corpulentus</i> Say. |
| 50 | <i>tridentata</i> Say. | 83 | <i>deflectus</i> Say. |
| 51 | <i>thyroideus</i> Say. | 84 | <i>dilatatus</i> Gould. |
| 52 | <i>zaleta</i> Say. | | <i>P. lens</i> (preoccupied) Lea. |
| 53 | <i>Limnea caperata</i> Say. | 85 | <i>exacutus</i> Say. |
| 54 | <i>decidiosa</i> Say. | | <i>Paludina hyalina</i> Lea. |
| | <i>L. acuta</i> Lea. | 86 | <i>lentus</i> Say. |
| | <i>Philadelphica</i> Lea. | 87 | <i>parvus</i> Say. |
| 55 | <i>elodes</i> Say. | 88 | <i>trivolvus</i> Say. |
| 56 | <i>humilis</i> Say. | 89 | <i>Pupa albilabris</i> Ward. |
| | <i>L. parva</i> Lea. | | <i>Cyclostoma marginata</i> Say. |
| 57 | <i>reflexa</i> Say. | 90 | <i>armifera</i> Say. |
| | <i>L. exilis</i> Lea. | 91 | <i>contracta</i> Say. |
| 58 | <i>jugularis</i> Say. | 92 | <i>corticaria</i> Say. |
| | <i>L. speciosa</i> Rossmasler. | 93 | <i>exigua</i> Say. |
| 59 | <i>umbrosa</i> Say. | 94 | <i>modesta</i> Say. |
| 59½ | <i>columella</i> Say. | 94½ | <i>pentodon</i> Say. |
| | <i>L. chalybea</i> Gould. | 95 | <i>Succinea campestris</i> Say. |
| 60 | <i>Melania canaliculata</i> Say. | | <i>S. obliqua</i> Say. |
| 61 | <i>conica</i> Say. | | <i>retusa</i> Lea. |
| 62 | <i>depygis</i> Say. | 96 | <i>avara</i> Say. |
| 63 | <i>exilis</i> Hald. | 97 | <i>ovalis</i> Say. |
| | <i>M. Kirtlandianus</i> Lea. | | <i>S. aurea</i> Lea. |
| 64 | <i>gracilis</i> Anthony. | 98 | <i>Valvata sincera</i> Say. |
| 65 | <i>Sayii</i> Wood. | 99 | <i>tricarinata</i> Say. |
| 66 | <i>excurata</i> Conr. | | <i>V. bicarinata</i> Lea. |
| 67 | <i>undulata</i> Say. | 100 | <i>Unio alasmodontinus</i> Barn. |
| 68 | <i>varicosa</i> Ward. | | <i>U. compressus</i> Lea. |
| 69 | <i>Paludina heterostrophæ</i> Kirt. | 101 | <i>alatus</i> Say. |
| 70 | <i>integra</i> Say. | | <i>U. megapterus</i> Raf. |
| 71 | <i>ponderosa</i> Say. | 102 | <i>bullatus</i> Raf. |
| 72 | <i>subcarinata</i> Say. | | <i>U. prasinus</i> Conrad. |
| 72½ | <i>decisa</i> Say. | | <i>Schoolcraftensis</i> Lea. |
| 73 | <i>Physa ancillaria</i> Say. | | <i>pustulosus</i> Lea. |
| 74 | <i>elongata</i> Say. | | <i>Dorfeuillanus</i> Lea. |
| 75 | | 103 | <i>cardium</i> Raf. |
| 76 | <i>gyrina</i> Say. | | <i>U. ventricosus</i> Barnes. |
| | <i>P. elliptica</i> Lea. | | <i>occidens</i> Lea. |
| 77 | <i>heterostrophæ</i> Say. | | <i>suboratus</i> Lea. |
| | <i>P. aurea</i> Lea. | | <i>dolabriformis</i> Lea. |
| 78 | <i>Planorbis armigerus</i> Say. | 104 | <i>cicatricosus</i> Say. |
| 79 | <i>bicarinatus</i> Say. | | <i>U. varicosus</i> Lea. |

- | No. | | No. | |
|-----|--|-----|---|
| 105 | Unio cuneatus Raf.
<i>U. modioliformis</i> Say.
<i>scalenius</i> Raf.
<i>patulus</i> Lea.
<i>decisus</i> Lea. | 119 | Unio leptodon Raf.
<i>U. planus</i> Barnes.
<i>velum</i> Say (female).
<i>purpurascens</i> Swains.
<i>tenuissimus</i> Lea. |
| 106 | crassus Say.
<i>U. ellipsarius</i> Raf.
<i>fasciatus</i> Raf. (young).
<i>ligamentina</i> Lam.
<i>carinatus</i> Barnes.
<i>ellipticus</i> Barnes.
<i>venustus?</i> Lea. | 120 | lineolatus Raf.
<i>U. depressus</i> Raf.
<i>securis</i> Lea. |
| 107 | cylindricus Say.
<i>U. solenoides</i> Raf.
<i>naviformis</i> Lam. | 121 | metanevrus Raf.
<i>U. nodosus</i> Barnes. |
| 108 | cyphius Raf.
<i>U. Aesopus</i> Green. | 122 | monodontus Say.
<i>U. soleniformis</i> Lea. |
| 109 | dilatatus Raf.
<i>U. gibbosus</i> Barnes.
<i>nasutus</i> Lam.
<i>arctior</i> Lea. | 123 | mytiloides Raf.
<i>U. cordatus</i> Raf. (young).
<i>undatus</i> Barnes.
<i>pyramidatus</i> Lea.
<i>solidus</i> Lea. |
| 110 | flavus Raf.
<i>U. rubiginosus</i> Lea.
<i>trigonus</i> Lea. | 124 | nasutus Say.
<i>U. rostratus</i> Val.
<i>Vaughanianus?</i> Lea. |
| 111 | fasciolus Raf.
<i>U. multiradiatus</i> Lea. | 125 | nervosus Raf.
<i>U. donaciformis</i> Lea.
<i>zig-zag</i> Lea. |
| 112 | fasciolaris Raf.
<i>U. phascolus</i> Hild.
<i>planulatus</i> Lea.
<i>camelus</i> Lea. | 126 | nigrum Raf.
<i>U. cuneatus</i> Barnes.
<i>gibber</i> Lea. |
| 113 | flexuosus Raf.
<i>U. foliatus</i> Hild. | 127 | nodulatus Raf.
<i>U. pustulatus</i> Lea. |
| 114 | fragilis Raf.
<i>U. gracilis</i> Barnes. | 128 | obliquatus Raf.
<i>U. sulcatus</i> Lea.
<i>ridibundus</i> Say (fem.) |
| 115 | fragosus Contr. | 129 | obovalis Raf.
<i>U. ebenus</i> Lea. |
| 116 | gibbosus Raf.
<i>U. tornulosus</i> Raf.
<i>perplexus</i> Lea.
<i>rangianus</i> Lea.
<i>capsiformis</i> Lea. | 130 | Ohioensis Raf.
<i>U. levissimus</i> Lea.
<i>inflatus</i> Lea. |
| 117 | heros Say.
<i>U. undulatus</i> Say.
<i>multiplicatus</i> Lea. | 131 | olivarius Raf.
<i>U. ellipsis</i> Lea. |
| 118 | lapillus Say.
<i>U. fabalis</i> Lea. | 132 | orbiculatus Hild.
<i>U. abruptus</i> Say. |
| | | 133 | ovatus Say.
<i>U. globosus</i> Lea (female).
<i>capax</i> Green (female). |
| | | 134 | parvus Barnes. |

- | No. | | No. | |
|------|--|------|---|
| 134½ | Unio personatus Say
(female).
<i>U. capillaris</i> Say (fem.).
<i>pileus</i> Lea (male).
<i>plenus</i> Lea (male).
<i>Sowerbianus</i> Lea. | 149 | Unio triquetrus Raf.
<i>U. cuneatus</i> Swainson.
<i>triangularis</i> Bar. (fem.).
<i>formosus</i> Lea (male). |
| 135 | plicatus Say.
<i>U. rariplicatus</i> Lam.
<i>costatus</i> Raf.
<i>Peruvianus</i> Lam. | 150 | truncatus Raf.
<i>U. elegans</i> Lea. |
| 136 | politus Say.
<i>U. subrotundus</i> Lea.
<i>Kirtlandianus</i> Lea. | 151 | tuberculatus Raf.
<i>U. tuberculosus</i> Val.
<i>verrucosus</i> Barnes.
<i>U. graniferus</i> Lea (y'ng). |
| 137 | quadrulus Raf.
<i>U. rugosus</i> Barnes.
<i>luchrymosus</i> Lea.
<i>asprerrimus</i> Lea. | 152 | undulatus Barnes. |
| 138 | rubrum Raf.
<i>U. coccineus</i> Hild.
<i>Gouldianus</i> Ward, old.
<i>catillus</i> Conr. | 153 | verrucosus Raf.
<i>U. tuberculatus</i> Barnes. |
| 139 | reflexus Raf.
<i>U. cornutus</i> Barnes. | 154 | Anodonta cataracta Say.
<i>A. exilis</i> Lea.
<i>salmonea</i> Lea.
<i>Pepiniana</i> Lea. |
| 140 | rectus Lam.
<i>U. latissimus</i> Raf.
<i>pralongus</i> Barnes. | 155 | Ferussaciana Lea.
<i>A. ferruginea</i> Lea. |
| 141 | Sayl Ward. | 156 | grandis Say.
<i>A. plana</i> Lea.
<i>decora</i> Lea (young).
<i>gigantea</i> Lea. |
| 142 | siliquoides Barnes.
<i>U. inflatus</i> Barnes
(female).
<i>hydianus</i> Lea. | 157 | imbecilis Say.
<i>A. incerta</i> Lea. |
| 143 | stegarius Raf.
<i>U. irroratus</i> Lea. | 158 | lata Raf.
<i>U. dehiscens</i> Say.
<i>oriens</i> Lea. |
| 144 | striatus Raf.
<i>U. Cooperianus</i> Lea. | 158½ | Alasmodonta ambigua Say.
<i>U. Hildrethianus</i> Lea. |
| 145 | subrostratus Say.
<i>U. iris</i> Lea. | 159 | calceola Lea.
<i>A. deltoidea</i> Lea. |
| 146 | subrotundus Raf.
<i>U. circulus</i> Lea.
<i>lens</i> Lea. | 160 | complanata Barnes. |
| 147 | teres Raf.
<i>U. anodontoides</i> Lea. | 161 | costata Raf.
<i>A. rugosa</i> Barnes. |
| 148 | torsus Raf. | 162 | edentula Say.
<i>Anodonta undulata</i> Say.
<i>areolata</i> ? Swains.
<i>rugosa</i> Swains.
<i>Wardiana</i> Lea.
<i>pavonia</i> Lea.
<i>Buchanensis</i> Lea. |
| | | 163 | truncata Say. |

Haldeman.—Observations on the Melanians of Lamarek: by S. S. HALDEMAN. (Am. Journ. Sci. and Art, O. S., xli, No. 1, pp. 21–23. April–June, 1841.)

Page 22. Description of animal of *Melania Virginica*.

Nicklin.—DES MOULINS' General Considerations on restricting the number of species of the Genera Unio and Anodonta: translated from the French by PHILIP H. NICKLIN, A. M. (Same as last article, pp. 104–116.)

H. C. Lea.—Description of eight new species of shells native to the United States: by H. C. LEA, Philadelphia. (In the American Journal of Science, O. S., vol. xlii, No. 1, Oct.–Dec., 1841. With one plate.)

Page.	Pl.	Fig.	Name.	Locality.
106	i	1	<i>Cyrena purpurea</i> H. C. Lea.	Delaware bay.
107	i	2	<i>Modiola elliptica</i> H. C. Lea.	Delaware bay.
107	i	3	<i>pulex</i> H. C. Lea.	Delaware bay.
108	i	4	<i>Crepidula acuta</i> H. C. Lea.	Delaware bay.
109	i	5	<i>Carychium exile</i> H. C. Lea.	Wissahiccon cr., Phila.
110	i	6	<i>Pasithea sordida</i> H. C. Lea.	Near Boston.
111	i	7	<i>Actæon parvus</i> H. C. Lea.	Delaware bay.
111	i	8	<i>Cerithium cancellatum</i> H. C. Lea.	Delaware bay.

On p. 106, the following species are quoted by name only from Delaware bay:—

<i>Actæon trifidus</i> Totten.		<i>Cerithium Greenii</i> .
<i>Cerithium terebrale</i> .		<i>Ostrea Canadensis</i> .
<i>nigrocinctum</i> .		

—On page 391 of this volume is a receipt for the preparation of fresh-water shells for the cabinet.

Adams.—On page 392 is a "Note on Mr. H. C. Lea's paper in the last number of this Journal:" by C. B. ADAMS.

Page 392. *Pasithea sordida* = *Actæon trifidus* Totten. (*Odostomia trifida* Gould.)

It is also said not to come from Boston; and, also, *Cerithium Sayii* is not from Boston.

Adams.—Catalogue of the Mollusca of Middlebury, Vermont, and vicinity; with observations: by C. B. ADAMS, Prof. Chem. and Nat. Hist. Middlebury College, Member Bos. Soc. Nat. Hist. (From Am. Journ. Sci., O. S., vol. xl, No. 2, pp. 266–277. January–March, 1841.)

[NOTE.—No descriptions are given, but very full remarks on locality, habits, &c. The paper was also published in pamphlet form, page 236 of the Journal being page 3 of the pamphlet.—W. G. B.]

Page.		Page.	
266	<i>Melania depygis</i> Say.	271	<i>Pupa badia</i> Adams.
266	<i>Paludina decisa</i> Say.	271	<i>albilabris</i> Ward's letter.
267	<i>lustrica</i> Say.		<i>Cyclostoma marginata</i> S.
267	<i>Valvata tricarinata</i> Say.	271	<i>ovata</i> Say.
267	<i>sincera</i> Say (with descr. of animal).		<i>Vertigo orata</i> Say.
267	<i>Limnæa megasoma</i> Say.	271	<i>contracta</i> Say.
267	<i>appressa</i> Say.	271	<i>exigua</i> Say.
267	<i>gracilis</i> Jay.	271	<i>miliun</i> Gould.
268	<i>pallida</i> Adams.	272	<i>Helix albolabris</i> Say.
268	<i>elodes</i> Say.	272	<i>thyroidus</i> Say.
268	<i>umbrosa</i> Say?	272	<i>palliat</i> Say.
	(<i>L. plebeia</i> Gould MSS.)	272	<i>monodon</i> Rackett.
268	<i>desidiosa</i> Say.		<i>H. fraterna</i> Say.
268	<i>caperata</i> Say.	272	<i>concava</i> Say.
268	<i>Physa ancillaria</i> Say.	272	<i>pulchella</i> Müll.
268	<i>heterostropha</i> Say.	273	<i>Sayii</i> Binney.
268	<i>gyrina</i> Say?	273	<i>tridentata</i> Say.
269	<i>elongata</i> Say.	273	<i>labyrinthica</i> Say.
269	<i>Planorbis corpulentus</i> Say.	273	<i>indentata</i> Say.
	<i>P. lentus</i> Say.	273	<i>arborea</i> Say.
269	<i>campanulatus</i> Say.	273	<i>inornata</i> Say.
269	<i>bicarinatus</i> Say.	273	<i>alternata</i> Say.
269	<i>armigerus</i> Say.	273	<i>chersina</i> Say.
269	<i>exacuons</i> Say (<i>exacutus</i> ?)	273	<i>lineata</i> Say.
269	<i>parvus</i> Say.	273	<i>striatella</i> Anthony.
270	<i>elevatus</i> Adams.	273	<i>fuliginosa</i> Griffith.
270	<i>hirsutus</i> Gould.	273	<i>electrina</i> Gould.
270	<i>deflectus</i> Say.		<i>H. Janus</i> Ad. MSS.
270	<i>Succinea obliqua</i> Say.	274	<i>multidentata</i> Binney.
	<i>S. campestris</i> Say?	274	<i>minuscule</i> Binney.
270	<i>ovalis</i> Say.	274	<i>Vitrina pellucida</i> Drap.
270	<i>avara</i> Say.	275	<i>Ancylus parallelus</i> Hald.
	<i>S. vermeta</i> (young).	275	<i>tardus</i> Say.
270	<i>Bulimus lubricus</i> Drap.	275	(Two unknown Limacea, one evidently <i>Tebennophorus Carolinensis</i> .—W. G. B.)
271	<i>Pupa armifera</i> Say.		

Page.		Page.	
276	Anodonta Benedictensis Lea.	276	Unio compressus Lea.
276	cataracta Say.	276	rectus Lam.
276	Wardiana Lea?	276	ventricosus Barnes.
276	Alasmodonta arcuata Barn.	276	luteolus Lam.
276	rugosa Barnes.	276	complanatus Lea.
276	undulata Say.	277	Cyclas elegans Adams.
276	Unio alatus Say.	277	rhomboida Say.
276	gracilis Barnes.	277	partumeia Say.
277	Remarks on geographical distribution of the above species.	277	calyculata Drap.

On page 408 of the same volume, in a supplementary note to the above article, are notes of *Pupa milium* and *Helix striatella*, the last being placed in the synonymy of *Helix ruderata* Studer.

Gould.—Report on the Invertebrata of Massachusetts, comprising the Mollusca, Annelida, and Radiata. Published agreeably to an order of the Legislature, &c.: by A. A. GOULD, M. D. Cambridge, 1841.

MOLLUSCA.

Pa. Fig.		Pa. Fig.	
3	Limax togata Gould.	6	Eolis Bostoniensis Gould.
3	tunicata Gould.		<i>E. rufibranchialis</i> Johnston?
4	Doris illuminata Gould.	6	salmonacea Couth.
5	Tritonia arborescens Cuv.	6	diversa Couth.
	<i>Doris arborescens</i> Müll.	7	gymnota Couth.
	<i>Tritonia Reynoldsii</i> Couth.		

CLASS CONCHIFERA.

Family Tubicolaria Lam.

26 **Teredo navalis** Lin.

Family Pholadaria Lam.

27 **Pholas costata** Lin.

27 **crispata** Lin.

P. bifrons Da Costa.

latus Lister.

Family Solenacea Lam.

28 **Solen ensis** Lin.

S. curvus Lister.

30 **Solecortus (Cultellus) Caribæus** Chemn.

Solen caribæus Lam.

Solecortus Caribæus Conr.

Guineensis Chem.

31 **Solecortus (Cultellus) fragilis** Pult.

Solen fragilis Pult.

Solecortus fragilis Conr.

Solen centralis Say.

Psammobia teniata Turton.

33 25-6 **Machæra** (n. g.) **nitida** Gould.

Pa. Fig.		Pa. Fig.	
34 p. 24	Machæra costata Say. <i>Solen costatus</i> Say. <i>Solecurtus costatus</i> Say.	37 27	Panopæa arctica Lam. <i>Glycymeris arctica</i> Lam.
35	Solemya velum Say.	39	Glycymeris siliqua Chemn. <i>Mya siliqua</i> Chemn.
36	borealis Tott. <i>S. velum</i> Conr.		<i>G. incrassata</i> Lam. <i>Mya picea</i> Wood.

Family **Myaria.**

40	Mya arenaria Lin. <i>M. mercenaria</i> Say. <i>acuta</i> Say.	43 37	Corbula contracta Say.
42	truncata Lin.	44	Pandora trilineata Say. <i>P. nasuta</i> Sowerby.

Family **Osteodesmacea.**

46 10	Osteodesma hyalina Conr. <i>Mya hyalina</i> Conr. <i>Lyonsia hyalina</i> Conr.	49 29,	Cochlodesma Leana Conr.
47 28	Anatina papyracea Say. <i>A. papyratia</i> ? Totten. <i>A. fragilis</i> Totten.	30	<i>Anatina Leana</i> Conr.
		50	Thracia Conradi Couth. <i>T. declivis</i> Conr. <i>Anatina convexa</i> Hitch. Cat.

Family **Mactracea** Lam.

51	Mactra solidissima Chemn. <i>M. gigantea</i> Lam. <i>Luteola</i> Loven (young).		<i>Mactra arcata</i> Conr. <i>deaurata</i> Conr. <i>subtriangulata</i> Conr.
53 32	ovalis Gould. <i>M. similis</i> Gray. <i>grandis</i> Desh.	58 38	Mesodesma Jauresii De Joan.
54 34-5	lateralis Say.	59	Montacuta bidentata Mont. <i>Mya bidentata</i> Mont.
56 36	Cumingia tellinoides Conr. <i>Mactra tellinoides</i> Conr.	60 33	Kellia rubra Mont. <i>Cardium rubrum</i> Mont. <i>larve</i> Walker.
57 39	Mesodesma arcata Conr.		<i>Tellina rubra</i> Turton.

Family **Lithophagidæ** Lam.

61 40	Saxicava distorta Say. <i>Mytilus rugosus</i> Lin.	63	Petricola pholadiformis Lam. <i>P. fornicata</i> Say.
		65 41	dactylus Sowb.

Family **Nymphacea** Lam.

66 42	Sanguinolaria fusca Say. <i>Psammodia fusca</i> Say. <i>Tellina inconspicua</i> ? Sowb. <i>Grönlandica</i> Beck. <i>Balthica</i> Lin.	67 43	Tellina tenta Say.
67	sordida Couth. <i>Tellina sordida</i> Couth.	68 44	tenera Say.
		69	Lucina radula Mont. <i>Tellina radula</i> Mont. <i>Venus borealis</i> Donovan. <i>Venus spuria</i> Dillwyn. <i>Pectunculus subfuscus</i> Lister.

Pa. Fig.

- 70 **Lucina divaricata** Lin.
Tellina divaricata Lin.
Cardium arcuatum Mont.
Pectunculus parvus Lister.
Strigilla divaricata Turton.

Pa. Fig.

- 71 52 **Lucina flexuosa** Mont.
Tellina flexuosa Mont.
Venus sinuosa Donovan.
Cryptodon flexuosa Turton.

Family **Conchacea** Lam.

- 72 53 **Cyclas similis** Say.
C. sulcata Lam.
73 54 **partumeia** Say.
C. cornea Lam. (var.)
74 55 **elegans** Adams.
75 56 **dubia** Say.
76 45 **Astarte castanea** Say.
Venus castanea Say.
Crassina castanea Lam.
78 46 **sulcata** Mont.
Venus sulcata Mont.
Danmonia Mont.
Danmoniensis Blainv.
Crassina sulcata Turton.
Danmoniensis Lam.
Astarte Danmoniensis Sowb.

- sulcata* Fleming.
Venus Scotica Mont.
80 47 **Astarte lactea** Br. & Sowb.
81 48 **quadrans** Gould.
82 **Cyprina Islandica** Lin.
Pectunculus maximus Lister.
crassus Da Costa.
Venus Islandica Lin.
mercenaria Pennant.
bucardium Born.
Cyprina vulgaris Sowb.
84 49 **Cytherea convexa** Say.
85 67 **Venus mercenaria** Lin.
86 67 **notata** Say.
87 50 **fluctuosa** Gould.
88 51 **gemma** Tott.

Family **Cardiacea** Desh.

- 89 58 **Cardium Islandicum** Lin.
C. ciliatum O. Fabr.
pubescens Couth.
90 57 **pinnulatum** Conr.
91 **Mortoni** Conr.

- 92 **Cardium Grœnlandicum** Chem.
Mactra radiata Donovan
C. edentulum Sowb.
Aphrodite columba Lea.
94 59 **Cardita borealis** Conr.
Arcturus rudis Humph. MSS.

Family **Arcacea** Lam.

- 95 60 **Arca pexata** Say.
96 **transversa** Say.
97 66 **Nucula thraciæformis** Storer.
98 62 **limatula** Say.
99 **myalis** Couth.
100 61 **sapotilia** Gould.
N. lævigata Gould, olim.
101 **minuta** Gmelin.
Arca minuta Gmelin.
Arca caudata Donovan.

- N. rostrata* Sowb.
tenuisulcata Couth.
102 67 **Nucula Jacksonii** Gld. (fossil Me).
103 **navicularis** Couth.
103 63 **proxima** Say.
105 64 **tenuis** Mont.
Arca tenuis Mont.
Nucula lucida Blanding MSS.

Family **Naiades** Lam.

Pa. Fig.		Pa. Fig.	
107 68, 69, 70	Unio complanatus Sol. <i>Mya complanata</i> Sol. <i>U. purpureus</i> Say. <i>purpurascens</i> Lam. <i>violaceus</i> Spengler. <i>rarisulcata</i> Lam. <i>coarctata</i> Lam. <i>rhombula</i> Lam. <i>carinifera</i> Lam. <i>Georgina</i> Lam. <i>glabrata</i> Lam. <i>sulcicens</i> Lam. <i>fluvialilis</i> Green.	113 75	Alasmodon arcuata Barnes. <i>Mya margaritifera</i> ? Lin. <i>Margaritana margaritifera</i> Lea.
109 71	nasutus Say. <i>Mya nasuta</i> Wood. <i>U. rostratus</i> Valenc.	115 76	undulata Say. <i>Unio undulata</i> Say. <i>Alasmodonta undulata</i> Barn. <i>Mya undulata</i> Wood. <i>Margaritana undulata</i> Lea. <i>Unio hians</i> Val. <i>Alasmodon undulata</i> Swains.
110 73	radiatus Gmel. <i>Mya radiata</i> Gmel. <i>U. Virginiana</i> Lam. , <i>Mya oblongata</i> Wood.	116 77	marginata Say. <i>Unio varicosa</i> Lam. <i>Alasmodonta truncata</i> ? Say. <i>Margaritana marginata</i> Lea. <i>Mya rugulosa</i> Wood.
111 72	cariosus Say. <i>U. ovata</i> Val.	117 80	Anodon fluviatilis Dillw. <i>Anodonta cataracta</i> Say. <i>Mytilus fluviatilis</i> Dillw. <i>illius</i> Sol.
112 74	ochraceus Say. <i>Symphynota ochracea</i> Lea.	118 78	implicata Say. <i>Anodonta Newtoniensis</i> ? Lea. <i>marginata</i> ? Say (young).
		120 79	undulata Say. <i>A. rugosus</i> Swainson.

Family **Mytilacea** Lam.

121 82	Mytilus edulis Lin. <i>M. vulgaris</i> Da Costa. <i>Musculus subcæruleus</i> Lister. <i>M. borealis</i> Lam. var. <i>pellucidus</i> .		<i>Mytilus plicatulus</i> Desh. <i>Modiola semi-costata</i> Conr.
123	Modiola modiolus Lin. <i>Mytilus modiolus</i> Lin. <i>papuanus</i> Desh. <i>Modiola papuana</i> Lam. <i>vulgaris</i> Fleming. <i>Mytilus barbatus</i> Lin.	127 85	Modiola pectinula Gould.
		128 86	nexa Gould.
		129 83	discrepans Mont. <i>Mytilus discrepans</i> Mont. <i>discors</i> O. Fabr. <i>Modiola lævigata</i> Gray (var.)
		130 84	discors Lin. <i>Mytilus discors</i> Lin. <i>Modiola discrepans</i> Lam.
125 81	plicatula Lam. <i>Mytilus demissus</i> Dillw.	131 87	glandula Tott.

Family **Pectenides** Lam.

132	Pecten magellanicus Gmel. <i>Ostrea magellanicus</i> Gmel.		<i>Ostrea cinnabarina</i> Born. <i>P. Pealeii</i> Conr.
133 89	Islandicus Müll. <i>Ostrea Islandica</i> Müll.	134 88	Pecten concentricus Say.

Family **Ostracea** Lam.

Pa. Fig.		Pa. Fig.	
136	Ostrea Virginiana Lister.		<i>O. edulis</i> Lin.
	<i>O. Virginica</i> Gmel.	138	Anomia ephippium Lin.
	<i>rostrata maxina</i> Chemn.		<i>Ostreum parvum</i> Lister.
	<i>elongata</i> Sol.	139 90	aculeata Gmel.
	<i>Canadensis</i> Lam.	140	electrica Lin.
137	borealis Lam.	140	squamula Lin.
	<i>O. Canadensis</i> Brug.		

Family **Brachiopoda** Lam.

141	Terebratula caput-serpentis Lin.		<i>T. pubescens</i> Desh.
	<i>Anomia caput-serpentis</i> Lin.		<i>septentrionalis</i> Couth.
	<i>pubescens</i> Dillw.	142 91	Terebratula psittacea Gmel.

CLASS **GASTEROPODA** CUVIER.Family **Phyllidiana** Lam.

143 20	Chiton apiculatus Say.		<i>Patella testudinaria</i> Kaemm.
	<i>C. pectinatus</i> Gould, olim.		<i>tessellata</i> Müll.
147 22	marginatus Penn.		<i>Clealandi</i> Sowb.
	<i>C. cinereus</i> Lowe.		<i>virginea</i> Müll.
148 23	fulminatus Couth.		<i>virginea</i> ? Gmel.
149 24	ruber Lowe.		<i>amæna</i> Say.
150 21	albus Mont.		<i>Patelloidea amæna</i> Couth.
	<i>C. aselloides</i> Lowe.		<i>Patelloida testudinalis</i> Lea.
	<i>sagrinatus</i> Couth.		<i>Patella clypeus</i> Brown.
151 19	Emersonianus Couth.		<i>L. Antillarum</i> Sowb.
152	Patella candida Couth.	154 13	Lottia alveus Conr.
153 12	Lottia testudinalis Müll.		<i>Patella alveus</i> Conr.
	<i>Patella testudinalis</i> Müll.		<i>Patelloidea alveus</i> Couth.

Family **Cirrobranchiata** Blainv.

155 5	Dentalium dentale Lin.		<i>D. attenuatum</i> Say.
	<i>D. striatum</i> Mont.		

Family **Calyptracea** Lam.

156 18	Cemoria Noachina Lin.		<i>Sipho striata</i> Brown.
	<i>Patella Noachina</i> Lin.	158 17	Crepidula fornicata Lin.
	<i>apertura</i> Mont.		<i>Patella fornicata</i> Lin.
	<i>fissurella</i> Müll.	159 16	plana Say.
	<i>Fissurella Noachina</i> Lyell.	160 15	convexa Say.
	<i>Puncturella Noachina</i> Lowe.		<i>C. unguiformis</i> Lam.?
	<i>C. Flemingii</i> Leach.	161 14	glauca Say.

Family **Bulleana** Lam.

Pa. Fig.		Pa. Fig.	
162 92	Bulla insculpta Totten. <i>B. solitaria?</i> Say.	166 97	Bulla canaliculata Say. <i>Volvaria canaliculata</i> Say. <i>Bullina canaliculata</i> Say.
163 100	hiemalis Couth.	167 96	obstricta Gould.
163 94	Gouldii Couth.	168 93	oryza Tott.
164 95	debilis Gould.	169 99	lineolata Couth.
165 98	triticea Couth.		

Family **Colimacea** Lam.

170 101	Helix albolabris Say. <i>Cochlea Virginiana</i> Lister.	185 105	Helix chersina Say.
171 108	thyroidus Say. <i>Cochlea umbilicata</i> Lister. <i>terrestris Virginiana</i> Schroet.	186 117	Pupa contracta Say.
	<i>Mesodon leucodon</i> Raf.	187 118	milium Gould.
172	hortensis Müll. <i>H. subglobosa</i> Binney.	188 119	modesta Say.
173 115	tridentata Say.	189 120	curvidens Gould.
174 113	monodon Rack.	190 121	simplex Gould.
175 116	hirsuta Say. <i>H. fraterna</i> Wood. <i>Stenotrema convexa</i> Raf.	191 122	exigua Say.
176 102	pulchella Müll. <i>Turbo heliцинus</i> Lightfoot. <i>H. paludosa</i> Mont., &c. &c. <i>minuta</i> Say.	192 123	fallax Say. <i>Cyclostoma marginata</i> Say. <i>P. fallax?</i> Say. <i>placida?</i> Say.
177 114	alternata Say. <i>H. scabra</i> Lam. <i>radiata</i> Gmel.	193 124	Bulimus lubricus Müll. <i>Helix lubrica</i> Müll. <i>Cionella lubrica</i> Jeffr. <i>Achatina lubrica</i> Michaud. <i>Turbo glaber</i> Da Costa. <i>Cochlicopa lubrica</i> Ferussac. <i>Zua lubrica</i> Leach.
178 112	striatella Anthony.	194 125	Succinea ovalis Say.
179 103	lineata Say. <i>Planorbis parallelus?</i> Say.	195 126	campestris Say.
180 104	cellaria Müll. <i>H. nitida</i> Draparnaud. <i>nitens</i> Maton & Rackett. <i>glaphyra</i> Say. <i>Zonites cellarius</i> Gray. <i>lucida</i> Leach.	196 127	avara Say. <i>S. vermeta</i> Say.
181 109	indentata Say.	197 130	Auricula bidentata Say. <i>Melampus bidentatus</i> Say. <i>A. cornea</i> Desh.
182 110	arborea Say.	199 129	denticulata Mont. <i>Voluta denticulata</i> Mont. <i>Actæon denticulatus</i> Fleming. <i>Jaminea denticulata</i> Leach. <i>Conovulus denticulatus</i> Gray. <i>A. myosotis</i> Jeffr. <i>Carychium personatum</i> Mich. <i>A. personata</i> Desh.
183 111	electrina Gould.		
184 106	labyrinthica Say.		

Family **Limneana** Lam.

Pa. Fig.		Pa. Fig.	
201 131	Planorbis trivolvis Say. <i>Cochlea trium orbium</i> Lister. <i>P. corpulentus</i> Say.		<i>Cochlea neritoides</i> Lister. <i>Bulla fontinalis</i> Gmel. (var.) <i>crassula</i> Dillw. <i>Limnea heterostropha</i> Say.
202 132	lentus Say.	213 142	Physa ancillaria Say.
203 134	bicarinatus Say. <i>Helix angulatus</i> Rackett.	214 143	elongata Say.
204 133	campanulatus Say.	215 144	Limnæa columella Say. <i>Lymnaus navicula</i> Val.
205 138	armigerus Say.	216 145	(var.) chalybea Gould.
206 135	hirsutus Gould.	217 148	macrostoma Say. <i>Limnea acuminata</i> Adams.
207	elevatus Adams.	218 149	umbilicata Adams.
207 136	deflectus Say. <i>P. virens</i> Adams (var.)	218 151	modicellus Say.
208 137	exacutus Say. <i>P. exacuus</i> Say.	219 150	desidiosa Say.
209 139	parvus Say.	221 146-7	elodes Say.
210 140	dilatatus Gould. <i>P. lens?</i> Lea.	223	catascopium Say. <i>Lymneus cornea</i> Val.
211 141	Physa heterostropha Say. <i>Bulla fontinalis</i> Indix Orientalis Chemn.	224 153	Ancylus rivularis Say.
		224 152	fuscus Adams.

Family **Peristomata** Lam.

225 156	Valvata tricarinata Say. <i>Cyclostoma tricarinata</i> Say. <i>V. carinata</i> Sowb. (var.) simplex .	227 p. 144	Paludina decisa Say. <i>P. limosa</i> Val.
226 155	pupoidea Gould.	229 157	Amnicola porata Say. <i>Paludina porata</i> Say.

Family **Neritacea** Lam.

231 163	Natica heros Say.	238 167	Natica clausa Br. & Sowb. <i>N. consolidata</i> Couth. <i>borealis</i> Beck.
233 165	triseriata Say.	239 162	flava Gould.
234 168	immaculata Tott.	240	Janthina fragilis Lin. <i>Helix janthina</i> Lin. <i>Janthina communis</i> Lam.
235 161	canaliculata Gould.		
236 164	duplicata Say.		
237 166	pusilla Say.		

Family **Macrostomata** Lam.

241 159	Velutina lævigata Lin. <i>Helix lævigata</i> Lin. <i>haliotoidea</i> Fabr. <i>Bulla velutina</i> Müll. <i>V. capuloidea</i> Blainv. <i>rupicola</i> Conr.		<i>Galericulum lævigatum</i> Brown.
		242 160	Velutina zonata Gould.
		244 158	Sigaretus haliotoideus Lam. <i>Helix haliotoidea</i> Lin. <i>Bulla haliotoidea</i> Mont. <i>Oryzoe glabra</i> Couth.

Family **Plicacea** Lam.

Pa. Fig.

Pa. Fig.

245 188 **Tornatella puncto-striata** Adams.Family **Scalariana** Lam.246 **Vermetus lumbricalis** Lin.*Vermicularia lumbricalis* Lam.*Vermetus lumbricalis* Lam.*Serpula lumbricalis* Lin.247 189 **Skenea serpuloides** Montagu.*Helix serpuloides* Mont.*Turbo serpuloides* Turton.*Delphinula? serpuloides* Ad.*Delphinoidea serpuloides* Brown.248 **Scalaria Nov-Angliæ** Couth.249 170* **Grœnlandica** Chemn.*Turbo clathrus Grœnlandicus*
Chemn.*S. planicosta* Kiener.*subulata* Couth.250 **lineata** Say.251 **multistriata** Say.Family **Turbinacea** Lam.252 **Margarita cinerea** Couth.*Turbo cinereus* Couth.*Trochus costalis* Loven.253 171* **obscura** Couth.*Turbo obscurus* Couth.254 172* **undulata** Sowb.*Turbo incarnatus* Couth.255 173* **arctica** Leach.*M. helicoides* Beck MSS.*Turbo inflatus* Totten.*Paludina inflata* Menke.256 174* **argentata** Gould.257 175* **Littorina rudis** Don.*Turbo rudis* Don.*obliquatus* Say.259 176* **tenebrosus** Mont.*Turbo tenebrosus* Mont.*vestitus* Say.260 177* **palliat** Say.*Turbo palliatus* Say.*neritoides?* Lin.262 178* **Lacuna vineta** Mont.*Turbo vinetus* Mont.*quadrifasciatus* Flem.*L. pertusa* Conr.(var.) **fusca**.263 170 **Lacuna neritoidea** Gould.265 171 **Cingula minuta** Tott.266 172 **aculeus** Gould.267 **Turritella erosa** Couth.268 173 **interrupta** Tott.269 174 **Pyramis striatula** Couth.270 175 **Odostomia producta** Adams.*Jaminia producta* Adams.270 176 **fusca** Adams.*Pyramis fusca* Adams.*Jaminia fusca* Adams.272 177 **exigua** Couth.*Jaminia exigua* Couth.*Rissoa rupestris* Forbes.*Turritella bisuturalis?* Say.273 178 **seminuda** Adams.*Jaminia seminuda* Adams.274 179 **trifida** Tott.*Actæon trifidus* Tott.Family **Canalifera** Lam.275 180 **Cerithium Emersonii** Adams.276 181 **terebrale** Adams.277 182 **nigrocinctum** Adams.278 183 **Sayi** Menke.*C. reticulatum* Tott.*Pusithea nigra* Tott. (young).279 184 **Greenii** Adams.280 185 **Pleurotoma decussata** Couth.281 186 **bicarinata** Couth.282 187 **plicata** Adams.283 190 **Cancellaria Couthouyi** Jay.*C. buccinoides* Couth.

- | Pa. Fig. | | Pa. Fig. | |
|----------|--|----------|---|
| 284 | Fusus Islandicus Gmel.
<i>Murex corneus</i> Pennant.
<i>Islandicus</i> Gmel.
<i>F. corneus</i> Say.
<i>Buccinum gracile</i> Da Costa.
<i>angustius</i> Lister. | 290 192 | Fusus rufus Montagu.
<i>Murex rufus</i> Mont.
<i>F. pleurotomarius</i> Couth. |
| 284 199 | (var.) pygmæus . | 291 191 | harpularius Couth. |
| 285 200 | ventricosus Gmel.
<i>F. Islandicus</i> Kiener (var.)
<i>corneus</i> Brown (var.)
<i>striatus</i> Coll. Par. | 292 193 | turricula Montagu.
<i>Murex turricula</i> Montagu.
<i>angulatus</i> Don. |
| 286 201 | tornatus Gould. | 293 | muricatus Montagu.
<i>Murex muricatus</i> Mont. |
| 287 202 | decemcostatus Say.
<i>F. carinatus</i> Kiener. | 294 206 | Pyrula canaliculata Lin.
<i>Murex canaliculatus</i> Lin.
<i>P. spirata</i> Kiener. |
| 288 203 | scalariformis Gould. | 296 | carica Gmel.
<i>Murex carica</i> Gmel. |
| 289 198 | Bamffius Don.
<i>Murex Bamffius</i> Don. | 297 204 | Ranella caudata Say. |

Family **Alata** Lam.

- 298 205
- Rostellaria occidentalis**
- Beck.

Family **Pupurifera** Lam.

- | | | | |
|---------|--|---------|---|
| 300 207 | Trichotropis borealis Sowb.
<i>T. costellatus</i> Couth. | | <i>B. striatum</i> Pennant. |
| 301 | Purpura lapillus Lin.
<i>P. imbricata</i> Lam.
<i>bizonalis</i> Lam.
<i>Buccinum lapillus</i> Lin.
<i>Tritonium lapillus</i> Müll.
<i>Purpuro-Buccinum</i> Da Costa. | 307 209 | Buccinum ciliatum O. Fabr.
<i>Tritonium ciliatum</i> O. Fabr.
<i>B. ventricosum</i> Kiener. |
| 303 213 | Buccinum plicosum Menke.
<i>Fusus cinereus</i> Say. | 308 210 | obsoletum Say.
<i>Nassa obsoleta</i> Say.
<i>B. Nov-Eboracensis</i> Wood.
<i>oliviforme</i> Kiener. |
| 304 208 | Donovani Gray.
<i>B. glaciale</i> Don. | 309 211 | trivittatum Say.
<i>Nassa trivittata</i> Say. |
| 305 | undatum Lin.
<i>B. crassum rufescens</i> Lister.
<i>vulgare</i> Da Costa.
<i>Tritonium undatum</i> Müll. | 310 212 | vibex Say.
<i>Nassa vibex</i> Say. |
| | | 311 195 | rosaceum Gould. |
| | | 312 196 | lunatum Say.
<i>Nassa lunata</i> Say. |

Family **Columellaria** Lam.

- 313 197
- Columbella avara**
- Say.

CLASS **CEPHALOPODA** CUVIER.

- | | | | |
|-----|---|-----|------------------------------------|
| 317 | Spirula Peronii Lam.
<i>Nautilus spirula</i> Lin. | 318 | Loligo illecebrosa Lesueur. |
|-----|---|-----|------------------------------------|

CLASS **TUNICATA** CUVIER.

- | | | | |
|-----|--------------------------------------|-----|------------------------------------|
| 319 | Ascidia rustica Lin. | | <i>Ascidia globifera</i> Sabine. |
| 319 | Boltenia reniformis Mac Leay. | | <i>clavata</i> Fabr. |
| | | 320 | Botryllus stellatus Pallas. |

Adams.—Description of a new Species of Thracia: by C. B. Adams, Prof. Chem. and Nat. History in Middlebury College. (From American Journal of Science, O. S., vol. xliii, No. 1. April–June, 1842.)

Page.	Name.	Locality.
145	Thracia inequalis Adams. (With three wood-cuts.)	Gulf of Mexico.

Adams.—Fresh-Water and Land Shells of Vermont: by C. B. ADAMS, A. M., Prof. Nat. Hist. in Middlebury College. (From Thomson's History of Vermont, Part I. Also published in pamphlet form, 1842.)

[With full descriptions of genera and species, and wood-cuts of some species.]

Page Hist. Pam.		Page Hist. Pam.	
151 1	Paludina decisa Say, fig.	156 6	Planorbis deflectus Say.
152 2	integra Say.	156 6	hirsutus Gould.
152 2	porata Say.	156 6	Succinea obliqua Say, fig.
152 2	lustrica Say.	156 6	ovalis Say.
152 2	Valvata sincera Say.	156 6	avara Say.
152 2	Melania depygis Say, fig.		<i>S. vermata</i> Say.
153 3	Limnæa megasoma Say,	157 7	Bulimus lubricus Dr.
153 3	appressa Say. [fig.]	157 7	Pupa milium Gould.
153 3	gracilis Jay.	157 7	ovata Say.
153 3	pallida Adams.	157 7	badia Adams.
153 3	elodes Say.	157 7	armifera Say.
154 4	desidiosa Say.	158 8	albilabris Ward, ined.
154 4	caperata Say.		<i>Cyclostoma marginata</i> S.
154 4	Physa ancillaria Say.	158 8	contracta Say.
154 4	heterostropha Say, fig.	158 8	Tappaniana Ward, ined.
154 4	gyrina Say.	158 8	exigua Say, fig.
154 4	hypnorum Dr.	159 9	Helix albolabris Say, fig.
	<i>P. elongata</i> Say.	159 9	thyroidus Say.
155 5	Planorbis trivolvris Say,	159 9	dentifera Binn.
	<i>P. lentus</i> Say. [fig.]	159 9	palliata Say.
	<i>corpulentus</i> Say.	159 9	monodon Rack.
155 5	campanulatus Say.		<i>H. fraterna</i> Say.
155 5	bicarinatus Say.	159 9	concava Say.
155 5	armigerus Say.		(incl. <i>H. Vancouverensis</i> Lea.)
155 5	exacutus Say.		
156 6	parvus Say.		

Page Hist. Pam.		Page Hist. Pam.	
159 9	Helix pulchella Müll. <i>H. minuta</i> Say	164 14	Anodonta fluviatilis <i>Dillw.</i>
160 10	Sayii Binn. <i>H. diodonta</i> Say.	165 15	undulata Say.
160 10	tridentata Say.	165 15	Alasmodonta arcuata <i>Barnes, fig.</i>
160 10	labyrinthica Say.	165 15	rugosa Barnes.
160 10	indentata Say.	165 15	undulata Say.
160 10	arborea Say.	166 16	Unio alatus Say, fig. on p. 14.
161 11	electrina Gould.	166 16	gracilis Barnes.
161 11	inornata Say.	166 16	compressus Lea. var. <i>plebeius</i> Adams.
161 11	fuliginosa Griff. <i>H. lucubrata</i> Say.	167 17	complanatus Lam.
161 11	multidentata Binn.	167 17	siliquoides Barnes.
161 11	minuscule Binn.	167 17	ventricosus Barnes.
162 12	striatella Anth.	167 17	rectus Lam.
162 12	alternata Say, fig.	168 18	Cyclas elegans Adams, fig.
162 12	chersina Say.	168 18	similis Say.
162 12	Vitrina pellucida Dr.	168 18	rhomboidea Say.
163 13	Limax campestris Binn.	168 18	partumeia Say.
163 13	Tebennophorus Carolin- ensis Bosc.	168 18	calyculata Dr.
163 13	Philomyous dorsalis <i>Binn.</i>	169 19	minor Adams.
164 14	Ancylus parallelus Hald.	Notes on—	
164 14	tardus Say.	169 19	Limnæa expansa Hald.
164 14	Anodonta Benedictensis <i>Lea, fig. on p. 16.</i>	169 19	Auricula bidentata Say (not in Vermont).
164 14	marginata Say.	169 19	Ammicola porata.
		169 19	lustrica.
		169 19	pallida Hald.

Prescott.—Catalogue of the Marine, Fluviatile, and Terrestrial Shells of Massachusetts: by WILLIAM PRESCOTT, M. D. Lynn, May 8, 1842. [No descriptions.]

No.		No.	
22	Teredo navalis Lin.	29	Machaera costatus Gould. <i>Solecortus costatus</i> Say
23	Pholas costata Lin.	30	Solemya borealis Tott.
24	crispata Lin.	31	velum Say.
25	Solen ensis Lin.	32	Panopæa arctica Gould. <i>Glycymeris arctica</i> Lam.
26	viridis Say.	33	Glycymeris siliqua Lam.
27	Solecortus caribæus Conr. <i>Solen caribæus</i> Lam.	34	Mya arenaria Lin. <i>M. mercenaria</i> Say.
28	fragilis Conr. <i>Solen fragilis</i> Pultney. <i>centralis</i> Say.	35	truncata Lin.

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|-----|-----------------------------------|-----|----------------------------------|
| No. | | No. | |
| 36 | Corbula contracta Say. | 67 | Astarte quadrans Gould. |
| 37 | Pandora trilineata Say. | 68 | sulcata Fleming. |
| | <i>P. nasuta</i> Sowb. | | <i>Venus sulcata</i> Mont. |
| 38 | Osteodesma hyalina Couth. | | <i>Crassina sulcata</i> Lam. |
| | <i>Mya hyalina</i> Conr. | | <i>A. danmoniensis</i> Sowb. |
| 39 | Anatina papyratia Say. | 69 | Cyprina Islandica Lam. |
| 40 | Cochlodesma Leana Couth. | | <i>Venus Islandica</i> Lin. |
| | <i>Anatina Leana</i> Conr. | 70 | Cytherea convexa Say. |
| 41 | Thracia Conradi Couth. | 71 | Venus mercenaria Lin. |
| | <i>T. declivis</i> Conr. | 72 | notata Say. |
| 42 | Mactra solidissima Chemn. | 73 | præparca Say (var.) |
| | <i>M. gigantea</i> Lam. | 74 | fluctuosa Gould. |
| 43 | ovalis Gould. | 75 | gemma Totten. |
| | <i>M. similis</i> Gray. | 76 | Cardium Groenlandicum |
| 44 | lateralis Say. | 77 | Islandicum Lin. [Chemn. |
| 45 | Cumingia tellinoides Conr. | | <i>C. pubescens</i> Couth. |
| | <i>Mactra tellinoides</i> Conr. | 78 | Mortoni Conr. |
| 46 | Mesodesma arctata Gould. | 79 | pinnulatum Conr. |
| | <i>Mactra arctata</i> Conr. | 80 | Cardita borealis Conr. |
| 47 | Jauressii De Joannis. | 81 | Arca pexata Say. |
| 48 | Montacuta bidentata Gould. | 82 | transversa Say. |
| 49 | Kellia rubra Turton. | 83 | Nucula limatula Say. |
| 50 | Saxicava distorta Say. | 84 | minuta Turton. |
| 51 | Petricola pholadiformis | | <i>N. tenuisulcata</i> Couth. |
| | <i>P. fornicata</i> Say. [Lam. | 85 | myalis Couth. |
| 52 | dactylus Sowb. | 86 | navicularis Couth. |
| 53 | Sanguinolaria fusca Conr. | 87 | proxima Say. |
| | <i>Psammobio fusca</i> Say. | 88 | sapotilla Gould. |
| 54 | sordida Gould. | 89 | tenuis Turton. |
| | <i>Tellina sordida</i> Couth. | 90 | thraciæformis Storer. |
| 55 | Tellina tenera Say. | 91 | Unio complanatus Lea. |
| 56 | tenta Say. | | <i>U. purpureus</i> Say. |
| 57 | calcaria ? | 92 | cariosus Say. |
| 58 | Lucina radula Gould. | 93 | ochraceus Say. |
| | <i>Tellina radula</i> Mont. | 94 | Alasmodon arcuata Barnes. |
| 59 | divaricata Lam. | 95 | marginata Say. |
| 60 | flexuosa Gould. | 96 | undulata Barnes. |
| | <i>Cryptodon flexuosa</i> Turt. | | <i>Unio undulata</i> Say. |
| 61 | Cyclas dubia Say. | 97 | Anodon fluviatilis Lea. |
| 62 | elegans Adams. | | <i>A. cataracta</i> Say. |
| 63 | partumeia Say. | 98 | implicata Say. |
| 64 | similis Say. | 99 | undulata Say. |
| 65 | Astarte castanea Say. | 100 | Mytilus edulis Lin. |
| | <i>Crassina castanea</i> Lam. | 101 | var. pellucidus Pennant. |
| 66 | lactea Brod., Sowb. | 102 | Modiola barbata Lam. |

No.		No.	
103	Modiola discors Fleming.	139	Bulla hiemalis Couth.
104	discrepans Gould.	140	insculpta Totten.
	<i>Mytilus discrepans</i> Mont.	141	lineolata Couth.
105	glandula Totten.	142	obstricta Gould.
106	modiolus Turton.	143	oryza Totten.
	<i>M. papuana</i> Lam.	144	triticea Couth.
107	nexa Gould.	145	Helix albolabris Say.
108	pectinula Gould.	146	alternata Say.
109	plicatula Lam.		<i>H. scabra</i> Lam.
110	Pecten concentrica Say.	147	arborea Say.
111	Islandicus Chemn.	148	cellaria Muller.
	<i>P. Pealeii</i> Conr.	149	chersina Say.
112	Magellanicus Lam.	150	electrina Gould.
113	Ostrea borealis Lam.	151	hortensis Muller.
	<i>O. edulis</i> Lin.	152	var. subglobosa Binn.
114	Virginiana Lister.	153	lineata Say.
115	Anomia aculeata Gmelin.	154	indentata Say.
116	squamula ? Lin.	155	labyrinthica Say.
117	ephippium Lin.	156	monodon Rackett.
118	Terebratula caput-serpentis Lam.		<i>H. fraterna</i> Say.
	<i>T. septentrionalis</i> Couth.	157	hirsuta Say.
119	psittacea Gmelin.		<i>H. fraterna</i> Wood.
120	Chiton albus Mont.	158	pulchella Muller.
	<i>C. sagrinatus</i> Couth.		<i>H. minuta</i> Say.
121	apiculatus Say.	159	striatella Anthony.
122	Emersonianus Couth.	160	thyroidus Say.
123	fulminatus Couth.	161	tridentata Say.
124	marginatus Pennant.	162	Pupa contracta Say.
125	ruber Lowe.	163	curvidens Gould.
126	Patella candida Couth.	164	exigua Say.
127	Lottia alveus Gould.	165	fallax Say.
128	testudinalis Gould.	166	millium Gould.
	<i>Patella amœna</i> Say.	167	modesta Say.
129	One species not identified.	168	simplex Gould.
130	Dentalium dentale Lin.	169	Tappaniana Ward.
131	Cemoria Noachina Gould.	170	Bulimus lubricus Brug.
	<i>Patella Noachina</i> Lin.	171	Succinea avara Say.
132	Crepidula convexa Say.	172	campestris Say.
133	fornicata Lam.	173	ovalis Say.
134	glauca Say.	174	Auricula bidentata Gould.
135	plana Say.		<i>Melampus bidentatus</i> Say
136	Bulla canaliculata Gould.	175	denticulata Gould.
137	debilis Gould.	176	Planorbis armigerus Say.
138	Gouldii Couth.	177	bicarinatus Say.
		178	campanulatus Say.

No.		No	
179	Planorbis deflectus Say.	219	Vermetus lumbricalis Lam.
180	dilatatus Gould.	220	Skenea serpuloides Flem. <i>Delphinula serpuloides</i> Ad.
181	elevatus Adams.	221	Scalaria Grœnlandica Gld. <i>S. subulata</i> Couth.
182	exacutus Say.	222	lineata Say.
183	hirsutus Gould.	223	multistriata Say.
184	lentus Say.	224	Nov-Angliæ Couth.
185	parvus Say.	225	Margarita cinerea Gould. <i>Turbo cinereus</i> Couth.
186	trivolis Say.	226	argentea Gould.
187	virens.	227	arctica Leach. <i>Turbo inflatus</i> Totten.
188	Physa ancillaria Say.	228	obscura Gould. <i>Turbo obscurus</i> Couth.
189	elongata Say.	229	undulata Sowb. <i>Turbo incarnatus</i> Couth.
190	heterostropha Say.	230	Littorina palliata Gould. <i>Turbo palliatus</i> Say.
191	Limnæa columella Say.	231	rudis Gould. <i>Turbo obligatus</i> Say.
192	var. chalybea Gould.	232	tenebrosa Gould. <i>Turbo vestitus</i> Say.
193	catascopium Say.	233	Lacuna neritoidea Gould.
194	elodes Say.	234	vineta Gould. <i>L. pertusa</i> Conr.
195	desidiosa Say.	235	fusca Adams.
196	macrostoma Say. <i>L. acuminata</i> Adams.	236	Cingula aculeus Gould. <i>Turbo aculeus</i> Adams.
197	modicellus Say.	237	minuta Gould. <i>Turbo minuta</i> Totten.
198	umbilicata Adams.	238	Turritella erosa Couth.
199	Ancylus fuscus Adams.	239	interrupta Totten.
200	rivularis Say.	240	Pyramis striatula Couth.
201	Valvata pupoidea Gould.	241	Odostomia exigua Gould. <i>Jaminia exigua</i> Couth.
202	tricarinata Say.	242	fusca Gould.
203	Paludina decisa Say.	243	producta Gould. <i>Jaminia producta</i> Ad.
204	Amnicola porata Say.	244	seminuda Gould.
205	Natica canaliculata Gould.	245	trifida Gould. <i>Acteon trifidus</i> Totten.
206	clausa Brod. <i>N. consolidata</i> Couth.	246	Cerithium Emersonii Ad.
207	duplicata Say.	247	Greenii Adams.
208	flava Gould.	248	nigrocinctum Adams.
209	heros Say.		
210	immaculata Totten.		
211	pusilla Say.		
212	triseriata Say.		
213	One species not identified.		
214	Janthina fragilis Brug.		
215	Velutina lævigata Gould. <i>V. rupicola</i> Conr.		
216	zonata Gould.		
217	Sigaretus haliotoideus Lam. <i>Orynoe glabra</i> Couth.		
218	Tornatella puncto-striata Adams.		

No.		No.	
249	Cerithium terebrale Adams.	268	Ranella caudata Say.
250	Sayi Menke. <i>C. reticulatum</i> Totten.	269	Rostellaria occidentalis Beck.
251	Pleurotoma decussata Couth.	270	Trichotropis borealis Sowb. <i>T. costellatus</i> Couth.
252	bicarinata Couth.	271	Purpura lapillus Lam.
253	plicata Adams.	272	var. <i>imbricata</i> Lam.
254	Cancellaria Couthouyi Jay. <i>C. buccinoides</i> Couth.	273	var. <i>bizonalis</i> Lam.
255	Fusus Bamffius Flem.	274	Buccinum ciliatum Gould. <i>B. ventricosum</i> Kiener.
256	decemcostatus Say.	275	Donovani Gray.
257	harpularius Couth.	276	lunatum Adams.
258	Islandicus Martini. <i>F. corneus</i> Say.	277	obsoletum Adams.
259	muricatus Brown.	278	plicosum Menke. <i>Fusus cinereus</i> Say.
260	rufus Gould.	279	rosaceum Gould.
261	pygmaeus Gould (var.)	280	trivittatum Adams. <i>Nassa trivittata</i> Say.
262	scalariformis Gould.	281	undatum Lin.
263	tornatus Gould.	282	vibex Adams. <i>Nassa vibex</i> Say.
264	turricula Flem.	283	Columbella avara Say.
265	ventricosus Gray. <i>F. Islandicus</i> Kiener (var.)	284	Spirula Peronii Lam.
266	Pyrula canaliculata Brug.		
267	carica Brug.		

Möller.—Index Molluscorum Groenlandiæ: auctore H. P. C.
MÖLLER. Hafnise, 1842. [With descriptions.]

CEPHALOPODA.

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3	Onycoteuthis Fabricii Möll. <i>Sepia loligo</i> Fabr.	4	Cirrroteuthis Mulleri Eschr.
3	amœna Möll.	4	Octopus granulatus . <i>Sepia octopodia</i> Fabr.
3	Rossia palpebrosa Owen.		

PTEROPODA.

4	Clione borealis . <i>Clio retusa</i> Fabr.	4	Limacina arctica Sab. <i>Argonauta arctica</i> Fabr.
		4	balea Möll.

GASTEROPODA.

4	Helix Fabricii . <i>Petasia Fabricii</i> Beck. <i>H. nitida</i> Fabr.	4	Pupa Hoppii Möll.
		4	Vitrina angelicæ Beck. <i>Helix pellucida</i> Fabr.

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4	<i>Succinea groenlandica</i> Beck.	8	<i>Margarita ? costulata</i> Möll.
4	<i>Lymnæa Vahlîi</i> .	8	<i>Skenea planorbis</i> .
	<i>Linnophysa Vahlîi</i> Beck.		<i>Turbo planorbis</i> Fabr.
5	<i>Holbollii</i> .	9	<i>Litorina Groenlandica</i> Mke.
	<i>Linnoph. Holböllii</i> Beck.		<i>Nerita litorea</i> Fabr.
5	<i>Pingelii</i> .	9	<i>arctica</i> Möll.
	<i>Linnoph. Pingelii</i> Beck.		<i>Nerita litoralis</i> Fabr.
5	<i>Planorbis arcticus</i> Beck.		var. <i>retusa</i> .
5	<i>Aeolidia bodocensis</i> ,	9	<i>Lacuna divaricata</i> .
	<i>Doris papillosa</i> Fabr.		<i>Trochus divaricatus</i> Fabr.
5	<i>Tergipes rupium</i> Möll.	9	<i>glacialis</i> Möll.
5	<i>Tritonia arborescens</i> .	9	<i>pallidula</i> Turt.
	<i>Doris arborescens</i> Fabr.	9	<i>Rissoa castanea</i> Möll.
5	<i>Asonii</i> Sars ?	9	<i>scrobiculata</i> Möll.
5	<i>Doris liturata</i> Beck.	9	<i>globulus</i> Möll.
6	<i>acutiuscula</i> Stp.	9	<i>saxatilis</i> Möll.
6	<i>obelata</i> .		<i>Trochus striatellus</i> Fabr.
	<i>D. obvelata</i> Müll. ?	9	<i>Turritella lactea</i> Möll.
6	<i>Euplocamus Holbollii</i> Möll.	10	<i>polaris</i> Beck.
6	<i>Bullæa granulosa</i> .	10	? <i>costulata</i> Möll.
	<i>B. granulosa</i> Sars ?	10	<i>Scalaria groenlandica</i> .
6	<i>punctata</i> Möll.		<i>Turbo clathrus Groenlandicus</i> Chemn.
6	<i>Bulla turrita</i> Möll.	10	<i>Eschrichti</i> Holb.
6	<i>corticata</i> Beck.	10	<i>Menestho</i> Möll. (n. g.)
6	<i>Reinhardi</i> Holb.	10	<i>Cl. albula</i> .
	<i>B. insculpta</i> Totten ?		<i>Turbo albulus</i> Fabr.
6	<i>subangulata</i> Möll.	10	<i>Velutina haliotoides</i> .
7	<i>Natica septentrionalis</i> Beck.		<i>Helix haliotoides</i> Fabr.
7	<i>groenlandica</i> Beck.	10	<i>lanigera</i> Möll.
	<i>N. borealis</i> Brod. & Sowb.	10	<i>Sigaretus ? Groenlandicus</i>
7	<i>cornea</i> Möll.		Möll.
	an <i>N. fragilis</i> Sab. var. ?	11	<i>Buccinum glaciale</i> Lin.
7	<i>nana</i> Möll.	11	<i>scalariforme</i> Beck.
7	<i>Amaura</i> Möll. (n. g.)	11	<i>undulatum</i> Möll.
7	<i>candida</i> Möll.	11	<i>cyaneum</i> Beck.
8	<i>Margaritastriata</i> Brod., Sowb.		<i>B. undatum</i> Fabr.
	var. <i>groenlandica</i> .	12	<i>Humphreysianum</i> Benn.
8	<i>undulata</i> Sowb.	12	<i>ciliatum</i> .
	var. <i>lævior</i> .		<i>Trit. ciliatum</i> Fabr.
	var. <i>trochiformis</i> .	12	<i>Purpura lapillus</i> Lam.
	<i>Trochus cinerarius</i> Fabr.	12	<i>Trichotropis Atlantica</i> Beck.
8	<i>helicina</i> .	12	<i>conica</i> Möll.
	<i>Trochus helycinus</i> Fabr.	12	<i>Mangelia Holbollii</i> Beck.
8	<i>glauca</i> Möll.	12	<i>Defrancia nobilis</i> Möll.
8	<i>Vahlîi</i> Möll.		

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12	Defrancia scalaris Möll.	15	Fusus latericeus Möll.
12	exarata Möll.	15	Kroyeri Möll.
13	Woodiana Möll.	15	Islandicus Lin.
	<i>Pleur. turricula</i> Wood.	15	Holbollii Möll.
13	elegans Möll.	15	Mitra Grœnlandica Beck.
13	cinerea Möll.	15	Admete Kröyer (n. g.)
13	Pingelii Beck.	15	crispa Möll.
13	VahlII Beck.	16	Lottia testudinalis .
13	cylindracea Möll.		<i>Patella testudinalis</i> Lin.
14	Beckii Möll.	16	Cemoria fissurella .
14	livida Möll.		<i>Patella fissurella</i> Müll.
14	viridula .	16	Patella cerea Möll.
	<i>Tritonium viridulum</i> Fabr.		an <i>P. candida</i> Couth.?
14	Trophon Fabricii Beck.	16	rubella Fabr.
14	clathratum .	16	Chiton ruber Lin.
	<i>Trit. clathratum</i> Fabr.		<i>C. marmoreus</i> Fabr.
14	Banffii .		var. unicolor .
	<i>Murex Banffii</i> Donov.		<i>cinereus</i> Fabr.
14	Fusus carinatus Lam.?	16	albus Lin.
	var. ventricosa .		

ACEPHALA.

16	Pecten Islandicus Chem.	19	Modolia faba .
16	Lima sulcata Leach.		<i>Mytilus faba</i> Fabr.
17	Nucula tenuis Gray.	19	? cicercula Möll.
17	corticata Holb.	19	? vitrea Holb.
17	lenticula Möll.		an <i>Myt. decussatus</i> Mont.
17	Leda buccata Stp.	19	Astarte arctica
	an <i>Nuc. rostrata</i> Lam.?		<i>Crassina arctica</i> Gray.
	var. brevis .	19	semisulcata .
	var. lævior .		<i>Crassina semisulcata</i> Gray.
17	macilentia Stp.	19	Banksii .
17	minuta .		<i>Nicania Banksii</i> Sab.
	<i>Arca minuta</i> Fabr.	20	striata .
	var. tumida .		<i>Nicania striata</i> Leach.
17	complanata Möll.	20	globosa Möll.
18	Yoldia Möll. (n. g.)	20	Cardium Grœnlandicum
18	arctica .		<i>Chemn.</i>
	<i>Nucula arctica</i> Gray.		<i>Venus Islandica</i> Fabr.
19	angularis Möll.	20	Islandicum Chemn.
	<i>Nucula myalis</i> Couth.		<i>C. ciliatum</i> Fabr.
19	Mytilus edulis Lin.	20	elegantulum Beck.
19	Modiola discrepans Sowb.	20	Lesæa minuta .
19	discors .		<i>Venus minuta</i> Fabr.
	<i>Mytilus discors</i> Lin.	20	Tellina calcarea Gmel.

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20	Tellina fragilis.	21	Mya truncata <i>Lin.</i>
	<i>Venus fragilis</i> Fabr.	21	arenaria <i>Lin.</i>
20	Cryptodon flexuosum.	21	Hiatella arctica.
	<i>C. flexuosum</i> Turt.?		<i>Mya arctica</i> Fabr.
20	Cyclas Steenbuchii Möll.		<i>byssifera</i> Fabr.
20	Pandorina arenosa Möll.	21	Teredo navalis <i>Lin.?</i>
21	Thracia myopsis Beck.		

TUNICATA.

21	Chelyosoma Macleayanum	22	Ascidia echinata <i>Lin.</i>
	<i>Brod. & Sowb.</i>	22	conchilega Müll.
21	Cynthia glutinans Möll.	22	complanata Fabr.
22	Ascidia monoceros Möll.	22	lurida Möll.
22	pyriformis Rathke.	22	Clavelina crystallina Möll.
22	villosa Fabr.	22	Boltenia reniformis M'Leay.
22	quadridentata <i>Lin.</i>		<i>Ascidia clavata</i> Fabr.
22	rustica <i>Lin.</i>	22	ciliata Möll.

BRACHIOPODA.

23 **Terebratula psittacea** *Lam.*

23 **Doris fusca** *Fabr.*

(There are also diagnoses of undetermined nudibranchiate Gasteropods.
—W. G. B.)

Conrad.—Description of three new Species of *Unio* from the Rivers of the United States: by T. A. CONRAD. (From Journ. Phila. Acad. Nat. Sci., vol. viii, 1842.)

Page.	Name.	Locality.
178	Unio perplicatus <i>Conrad.</i>	Jackson, La.
179	nodiferus <i>Conrad.</i>	Jackson, La.
179	parallelus <i>Conrad.</i>	Jackson, La.

Philipps.—Description of a new American Species of the Genus *Helix*: by J. S. PHILIPPS. (From same.)

Page.	Name.	Locality.
182	Helix lasmodon <i>Philipps.</i>	Alabama.

Haldeman.—Description of five new Species of North American Fresh-water Shells: by S. S. HALDEMAN. (From same.)

Page.	Name.	Locality.
200	<i>Amnicola attenuata</i> Hald.	Montgomery Co., Va.
200	<i>lapidaria</i> Say (notes on).	
200	<i>Sayana</i> Anthony (notes on).	
200	<i>Cincinnatiensis</i> Lea = <i>Sayana</i> (notes on).	
200	<i>Melania integra</i> = <i>Amnicola</i> (notes on).	
200	<i>Physa globosa</i> Hald.	Nolachucky river.
201	<i>Unio puniceus</i> Hald.	Holston river, Va.
202	<i>abacus</i> Hald.	Holston river, Tenn.
202	<i>Anodon plicatus</i> Hald.	Cumberland riv., Ten.

De Kay.—Zoology of New York: by JAMES E. DE KAY. Part V. Mollusca 4to. pp. 271, 40 plates. Albany, 1843.

(The State Report. Descriptions of the families, genera, &c. are also given. The letters e. l. are placed against the species described as extra limital; many of the other species, however, had not been detected in the State.)

CEPHALOPODA.

Sepiadæ.

Page.	Plate.	Fig.	Name.	Locality.
3	i	1	<i>Loligo punctata</i> De Kay.	
4	xxxviii	354	<i>Pealeii</i> Les., e. l.	South Carolina.
4			<i>illecebrosa</i> Les., e. l.	Massachusetts.
4			<i>Bartlingii</i> Les., e. l.	Gulf stream.
4	xxxviii	353	<i>pavo</i> Les., e. l.	Massachusetts.
4	xxxvii	352	<i>Bartrami</i> Les., e. l.	Coast of U. S.
4	xxxvii	351	<i>brevipinna</i> Les., e. l.	Delaware bay.

Siphonidæ.

5	xxxv	332	<i>Spirula Peronii</i> Lam.	
			<i>Nautilus spirula</i> Linn.	
			<i>Spirula australis</i> Cuvier.	

PTEROPODA.

Clionidæ.

6	i	2	<i>Cllo borealis</i> Linn.	
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GASTEROPODA.

NUDIBRANCHIA.

Doridæ.

8			<i>Doris illuminata</i> Gould, e. l.	Boston bay.
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Tritonidæ.

Page.	Plate.	Fig.	Name.	Locality.
8	v	94	Tritonia Reynoldsi <i>Couth.</i> <i>T. arborescens</i> Gould.	

Glaucidæ.

9	v	96	Eolidia Bostoniensis <i>Couth.</i> <i>Eolis Bostoniensis</i> <i>Couth.</i> <i>rudibranchialis</i> Gould?	
9	v	97	diversa <i>Couth.</i> <i>Eolis diversa</i> <i>Couth.</i>	
10	v	95	gymnota <i>Couth.</i> <i>Eolis (Tergipes) gymnota</i> <i>Couth.</i>	
11	vi	116	Cavolina salmonacea <i>Couth.</i> <i>Eolis salmonacea</i> Gould.	
11			Filurus (n. g.) dubius <i>De Kay.</i>	

INFRABRANCHIA.

12	v	98 a, b	Ancylus rivularis <i>Say.</i>	
13	v	99 a, b	calcarius <i>De Kay.</i>	
13			fuscus <i>Adams.</i>	
13			tardus <i>Say, e. l.</i>	Wabash river.
13			filosus <i>Conrad, e. l.</i>	Alabama.
13			Nuttalli <i>Hald.</i>	Oregon.
13			diaphanus <i>Hald.</i>	Ohio.
13			parallelus <i>Hald.</i>	

TECTIBRANCHIA.**Aceridæ.**

14	v	100 a, b	Bulla insculpta <i>Totten.</i>	
15	v	101	Gouldii <i>Couth.</i>	
15	v	102	obstricta <i>Gould.</i>	
16			<i>Bulla fluviatilis</i> <i>Say</i> , is referred doubtfully to Physa planorbula <i>De Kay.</i>	
16	xxxv	334	Bulla lineolata <i>Couth.</i>	
17	xxxv	326	triticea <i>Couth.</i>	
17	xxxv	329	debilis <i>Gould.</i>	
18			<i>Bulla fontinalis</i> <i>Say</i> , referred doubtfully to a Physa .	
18	xxxv	335	Bulla hiemalis <i>Couth.</i>	
18	xxxv	327	oryza <i>Totten.</i>	
19	xxxv	328	canaliculata <i>Say.</i> <i>Volvaria canaliculata</i> <i>Say.</i> <i>Bullina canaliculata</i> <i>Say.</i>	
19			solitaria <i>Say, e. l.</i> <i>Bulla insculpta</i> ?	Southern coast.

PULMONBRANCHIA.

Limacidæ.

Page.	Plato.	Fig.	Name.	Locality.
20	i	4	Limax agrestis Linn. <i>L. tunicata</i> Gould.	
21	i	5	flavus Linn. <i>L. variegatus</i> Lam.	
22			campestris Binney.	
22			gracilis Ferussac, e. l.	Western States.
22			dorsalis (Philomycus) Binney, e. l.	Vt., Mass.
23			Arion hortensis Lam. <i>Limax hortensis</i> Lam.	
24	iii	1	Tebennophorus Caroliniensis Bosc. <i>Limax Caroliniensis</i> Bosc. <i>togata</i> Gould.	

Helicidæ.

25	iii	42 a, b	Vitrina pellucida Draparnaud.	
26	ii	12	Helix albolabris Say. <i>Cochlea Virginiana</i> Lister.	
27	ii	11 a, b	appressa Say. <i>H. linguifera</i> Ferussac.	
27	ii	6 a, b	exoleta Binney. <i>H. zaleta</i> Say. <i>albolabris</i> , var. <i>unidentata</i> Ferussac.	
28	ii	7 a, b	tridentata Say.	
28	iii	23 a, b	fallax Say. <i>H. tridentata</i> (var.) Binney.	
29	ii	8 a, b	thyroidus Say. <i>Cochlea umbilicata</i> Lister.	
29	ii	9	alternata Say. <i>H. scabra</i> Lam.	
30	ii	10 a, b, c	arborea Say.	
30			electrina Gould.	
31	iii	26 a, b	indentata Say.	
31	ii	13 a, b	clausa Say.	
32	ii	14 a, b	subglobosa Binney.	
	iii	39 a, b	<i>H. hortensis</i> Gould.	
33	ii	15 a, b	concava Say.	
33	iii	36 a, b	palliata Say. <i>H. obstricta</i> Say. <i>denotata</i> Ferussac. <i>Carolinensis</i> Lea. <i>Carocolla helicoides</i> Lea.	
	ii	16 a, b		
34	ii	17 a, b	dentifera Binney.	

Page.	Plate.	Fig.	Name.	Locality.
34	ii	18 a, b	<i>Helix diodonta</i> Say.	
35	iii	19, 21 a, b	<i>monodon</i> Racket.	
			<i>H. fraterna</i> Say.	
			<i>convexa</i> Lam.	
36	iii	27 a, b	<i>hirsuta</i> Say.	
36	iii	20 a, b	<i>elevata</i> Say.	
			<i>H. Knoxvilleana</i> Say.	
37	iii	22	<i>fuliginosa</i> Griffith.	
37	iii	35 a, b	<i>cellaria</i> Müller.	
			<i>H. glaphyra</i> Say.	
			<i>nitida</i> Draparnaud.	
38	iii	24 a, b	<i>suppressa</i> Say.	
38	iii	29	<i>intertexta</i> Gould.	
39			<i>inornata</i> Say.	
39	iii	31	<i>labyrinthica</i> Say.	
40	iii	32 a, b	<i>ligera</i> Say?	
40	iii	33 a, b	<i>minuta</i> Say.	
			<i>H. pulchella</i> Binney.	
41	iii	34 a, b	<i>multilineata</i> Say.	
41	iii	35 a, b	<i>Pennsylvanica</i> Green.	
42	iii	38 a, b	<i>perspectiva</i> Say.	
42	iii	37 a, b, c	<i>profunda</i> Say.	
			<i>H. Richardi</i> Ferussac.	
43	iii	40 a, b, c	<i>striatella</i> Anthony.	
			<i>H. rudrata</i> Studer?	
43	iii	41 a, b	<i>solitaria</i> Say.	
44	iii	30 a, b	<i>rufa</i> De Kay.	
44			<i>lineata</i> Say.	
			<i>Planorbis parallelus</i> Say.	
44	xxxv	338	<i>chersina</i> Say.	
45			<i>major</i> Binney, e. 1.	Southern States.
45			<i>inflecta</i> Say, e. 1.	N. C., W'm St's.
45			<i>irrorata</i> Say, e. 1.	Pennsylvania.
			var. <i>lactea</i> Ferussac.	
45			<i>corpuloides</i> Montagu, e. 1.	Near Boston.
45			<i>egena</i> Say, e. 1.	Pennsylvania.
45			<i>Mitchelliana</i> Lea, e. 1.	Ohio.
45			<i>porcina</i> Say, e. 1.	N. W. Territory.
45			<i>Vancouverensis</i> Lea, e. 1.	Oregon.
46			<i>interna</i> Say, e. 1.	Missouri.
46			<i>Nuttalliana</i> Lea, e. 1.	Oregon.
46			<i>Columblana</i> Lea, e. 1.	Columbia river.
46			<i>Californiensis</i> Lea, e. 1.	California.
46			<i>gularis</i> Say, e. 1.	Ohio.
46			<i>Townsendiana</i> Lea, e. 1.	Columbia river.

Page.	Plate.	Fig.	Name.	Locality.
46			<i>Helix jejuna</i> Say, e. l.	Southern States.
46			<i>Oregonensis</i> Lea, e. l.	Oregon.
46			<i>dealbata</i> Say, e. l.	Ala., Missouri.
46			<i>Wardiana</i> Lea, e. l.	Ohio.
47	iii	28	<i>auriculata</i> Say (<i>Polygyra</i>), e. l.	Florida.
47			<i>Sayii</i> Wood, e. l.	
47			<i>septemvolva</i> Say, e. l.	Georgia, Florida.
47			<i>avara</i> Say, e. l.	Florida, Carolina.
47			<i>aspersa</i> Ferussac, e. l.	
47	vi	114 a, b	<i>spinosa</i> Lea, e. l.	Alabama.
47			<i>Cumberlandiana</i> Lea, e. l.	Tennessee.
47			<i>lasmodon</i> Philipps, e. l.	Alabama.
48	iv	44	<i>Pupa milium</i> Gould.	
49	iv	45	<i>badia</i> Adams.	
			<i>Pupilla badia</i> Gould.	
49	iv	46	<i>exigua</i> Say.	
49	iv	47	<i>contracta</i> Say.	
50	iv	50	<i>ovata</i> Say.	
			<i>P. modesta</i> Say.	
50	iv	49	<i>corticaria</i> Say.	
50	iv	48	<i>pentodon</i> Say.	
	xxxv	337	<i>P. curvidens</i> Gould.	
			<i>Tappaniana</i> Adams.	
51	xxxv	331	<i>fallax</i> Say.	
			<i>Cyclostoma marginata</i> Say.	
			<i>P. placida</i> Say (<i>Bulimus hordeaceus</i>).	
			<i>albilabris</i> Adams.	
52			<i>armifera</i> Say?	
52	xxxvi	347	<i>simplex</i> Gould.	
52			<i>rupicola</i> Say, e. l.	Florida.
53	iv	51, 52	<i>Succinea ovalis</i> Say.	
			<i>S. lineata</i> De Kay, ined.	
53	iv	53	<i>obliqua</i> Say.	
54	iv	54 a, b	<i>campestris</i> Say.	
54	iv	55	<i>avara</i> Say.	
			<i>S. vermeta</i> Say?	
55			<i>retusa</i> Lea, e. l.	Cincinnati.
55	iii	43	<i>Bulimus lubricus</i> Bruguiere.	
56			<i>mutilatus</i> Say, e. l.	Charleston.
56			<i>multilineatus</i> Say, e. l.	Florida.
56			<i>Achatina solida</i> Say, e. l.	Florida.
56	iv	56	<i>vexillum</i> Humphreys, e. l.	Florida.
56			<i>virginea</i> Linn., e. l.	Florida.
56			<i>striata</i> Ferussac, e. l.	Florida.
56			<i>flammigera</i> Ferussac, e. l.	Florida.

Page. Plate.	Fig.	Name.	Locality.
56		Glandina truncata Say, e. l. <i>Planorbis glans</i> Say.	S. C. & Florida.
Auriculiadæ.			
57	v 92, 1—3	Auricula bidentata Say. <i>Melampus bidentatus</i> Say. <i>A. cornea</i> Lam.	
58	v 91, 93	denticulata Montagu. <i>Voluta denticulata</i> Mont. <i>A. personata</i> Lam. <i>borealis</i> Conrad.	
58		obliqua Say, e. l.	Charleston.
Limniadæ.			
59	iv 59 a, b	Planorbis trivolvus Say.	
60	iv 63 a, b	bicarinatus Say.	
60	v 80* a, b	lentus Say.	
61	iv 60, 61	megastoma De Kay.	
61	v 99* a, b	campanulatus Say.	
62	iv 57 a, b	obliquus De Kay.	
62	iv 64 a, b, c	armigerus Say. <i>Discus armigerus</i> Hald.	
63	iv 62 a, b	exacutus Say.	
63	iv 58	parvus Say.	
64	viii 185* a, b	corpulentus Say.	
64		hirsutus Gould.	
65		elevatus Adams.	
65		deflectus Say.	
66		dilatatus Gould. <i>P. lens</i> Lea?	
66		glabratus Say, e. l.	South Carolina.
66		antorsus Conrad, e. l.	Alabama.
66		virens Adams, e. l.	Vermont.
67	v 80	Limnea catascopium Say. <i>L. pinguis</i> Say? <i>decollata</i> Adams.	
68	iv 68	fragilis Linn. <i>Helix fragilis</i> Linn. <i>Limnea elodes</i> Say.	
68	iv 76	umbrosa Say. <i>Limneus elongatus</i> Say.	
69	iv 66, 69	caperata Say.	
	v 79	<i>L. umbilicata</i> Adams.	
69	iv 67	pallida Adams.	
70	iv 70	megasoma Say.	

Page.	Plate.	Fig.	Name.	Locality.
70	iv	73	<i>Limnea gracilis</i> Jay.	
71	iv	71 a, b	<i>humilis</i> Say.	
			<i>L. modicella</i> Say?	
71	iv	65, 72 a, b	<i>reflexa</i> Say.	
			<i>L. exilis</i> Lea.	
72	iv	74 a, b	<i>Linsleyi</i> De Kay.	
72	iv	75	<i>columella</i> Say.	
			<i>L. macrostoma</i> Say.	
			<i>acuminata</i> Adams.	
73	iv	77	<i>emarginata</i> Say.	
73	v	78	<i>desidiosa</i> Say.	
			<i>L. acuta</i> Lea.	
			<i>casta</i> Lea?	
			<i>L. Philadelphica</i> Lea.	
74	v	81	<i>jugularis</i> Say.	
			<i>L. stagnalis</i> Kirtland.	
74			<i>appressa</i> Say.	
75			<i>obrusa</i> Say, e. l.	Philadelphia.
			<i>L. decidiosa</i> Hald.?	
75			<i>ferruginea</i> Hald., e. l.	Oregon.
75			<i>rugosa</i> Valenciennes, e. l.	Mexico.
75			<i>attenuata</i> Say, e. l.	Mexico.
75	xxxvi	348	<i>expansa</i> Hald., e. l.	Vermont.
75			<i>solida et apicina</i> Lea, e. l.	Oregon.
75			<i>bulimoides</i> Lea, e. l.	Oregon.
75			<i>vitrea</i> Hald., e. l.	Ohio? Missouri.
76	v	82	<i>Physa heterostropha</i> Say.	
			<i>Limnea heterostropha</i> Say.	
76	v	83	<i>planorbula</i> De Kay.	
			<i>Bulla fluviatilis</i> Say?	
77	v	82	<i>cylindrica</i> Newcomb, ined.	
77			<i>elliptica</i> De Kay.	
			<i>P. cylindrica</i> Lea.	
78	v	85	<i>plicata</i> De Kay.	
78	v	86	<i>obesa</i> De Kay.	
78	v	90	<i>ancillaria</i> Say.	
79	v	87	<i>gyrina</i> Say?	
80	v	88	<i>glabra</i> De Kay.	
80	v	89 a, b	<i>aurea</i> Lea.	
81	xxxvi	346	<i>elongata</i> Say.	
81			<i>pomilia</i> Conrad, e. l.	Alabama.
81			<i>integra</i> Hald., e. l.	Indiana.
81			<i>concolor</i> Hald., e. l.	Oregon.
81			<i>Sayii</i> Tappan, e. l. (no description given).	
81			<i>globosa</i> Hald., e. l.	Virginia.

Cyclostomidæ.

Page.	Plate.	Fig.	Name.	Locality.
82			<i>Cyclostoma dentata</i> Say, e. l.	Florida.
82			<i>Cincinnatiense</i> Lea, e. l.	Cincinnati.
			<i>A. [Amnicola] Sayana</i> Anthony?	

Helicinidæ.

82			<i>Helicina orbiculata</i> Say, e. l.	Florida.
82			<i>fastigiata</i> Say, e. l.	Illinois.
82			<i>plicata</i> Say.	
82			<i>occulta</i> Say, e. l.	Western States.

PECTINIBRANCHIA.**Turbinidæ.**

84	vi	131 a, b	<i>Paludina disscisa</i> Say.	
	vii	134	<i>P. decisa</i> Say.	
			<i>ponderosa</i> Deshayes in Lam.	
84	vii	132 a, b	<i>integra</i> Say.	
			<i>P. heros</i> De Kay.	
85	vii	133	<i>isogona</i> Say.	
			<i>P. pallida</i> Lea?	
85			<i>transversa</i> Say, e. l.	Louisiana.
85			<i>intertexta</i> Say, e. l.	Louisiana.
86			<i>ponderosa</i> Say, e. l.	Falls of the Ohio.
			<i>P. heterostropha</i> Kirtland.	
86			<i>Georgiana</i> Lea, e. l.	Darien, Ga.
86			<i>vivipara</i> Say, e. l.	South Carolina.
86			<i>magnifica</i> Conrad, e. l.	Alabama.
86			<i>subpurpurea</i> Say, e. l.	Wabash river.
86			<i>genicula</i> Conrad, e. l.	Georgia.
86			<i>subglobosa</i> Say, e. l.	N. W. Territory.
86			<i>dissimilis</i> Say, e. l.	Pennsylvania.
86			? <i>lapidaria</i> Say, e. l.	Pennsylvania.
			<i>Cyclostoma lapidaria</i> Say.	
87			<i>subcarinata</i> Say, e. l.	Pennsylvania.
87			<i>bimonilifera</i> Lea, e. l.	Alabama river.
87			<i>Amnicola lustrica</i> Say.	
			<i>Paludina lustrica</i> Say.	
88	xxxv	333	<i>porata</i> Say.	
			<i>Paludina porata</i> Say.	
88			<i>limosa</i> Say, e. l.	Delaware.
88			<i>grana</i> Say, e. l.	Pennsylvania.
88			<i>Cincinnatiensis</i> Anthony, e. l.	Cincinnati.
88			<i>Nickliniana</i> Lea, e. l. (no description given).	

Page.	Plate.	Fig.	Name.	Locality.
89	vii	135 a, b	<i>Melania depygis</i> Say.	
90			<i>Niagarensis</i> Lea.	
90	vii	141	<i>virginica</i> Say.	
			<i>Puludina virginica</i> Say.	
91	vii	140 a, b	<i>bizonalis</i> De Kay.	
91	vii	142	<i>gemma</i> De Kay.	
92	vii	138	<i>subularis</i> Lea.	
92			<i>undulata</i> Say, e. l.	Ohio river.
92			<i>Hildrethiana</i> Lea, e. l.	Ohio river.
92			<i>castanea</i> Lea, e. l.	Tennessee.
92			<i>lævis</i> Lea, e. l.	
92			<i>Kirtlandiana</i> Lea, e. l.	Indiana & Ohio.
92			<i>Taitiana</i> Lea, e. l.	Alabama.
93			<i>dubiosa</i> Lea, e. l.	Tennessee.
93			<i>ebenum</i> Lea, e. l.	Tennessee.
93			<i>rufescens</i> Lea, e. l.	Tennessee.
93			<i>tuberculata</i> Lea, e. l.	Tennessee.
			<i>M. stygia</i> Say.	
93			<i>armigera</i> Say, e. l.	Ohio river.
93			<i>Hydei</i> Conrad, e. l.	Alabama.
93			<i>catenaria</i> Say, e. l.	South Carolina.
93			<i>cancellata</i> Say, e. l.	Florida.
93			<i>fusiformis</i> Lea, e. l.	Tennessee.
93			<i>clavæformis</i> Lea, e. l.	Tennessee.
94			<i>gracilis</i> Lea, e. l.	Tennessee.
94			<i>subsolida</i> Lea, e. l.	Tennessee.
94			<i>ocoeensis</i> Lea, e. l.	Tennessee.
94			<i>subcylindræa</i> Lea, e. l.	Tennessee.
94			<i>sordida</i> Lea, e. l.	Tennessee.
94			<i>regularis</i> Lea, e. l.	Tennessee.
94			<i>fuliginosa</i> Lea, e. l.	Tennessee.
94			<i>alveare</i> Conrad, e. l.	Tennessee.
94			<i>annulifera</i> Conrad, e. l.	Alabama.
94			<i>biteniata</i> Conrad, e. l.	Alabama.
94			<i>canaliculata</i> Say, e. l.	Ohio.
			<i>M. Sayii</i> Conrad.	
95			<i>conica</i> Say, e. l.	Ohio river.
			<i>Anculotus conicus?</i>	
95			<i>Nickliniana</i> Lea, e. l.	Virginia.
95			<i>viridis</i> Lea, e. l.	Ohio.
95			<i>occidentalis</i> Lea, e. l.	Ohio.
95			<i>globula</i> Lea, e. l.	Tennessee.
95			<i>altilis</i> Lea, e. l.	Maryland & S. C.
95			<i>strigosa</i> Lea, e. l.	
95			<i>virgata</i> Lea, e. l.	Tennessee.

Page	Plate.	Fig.	Name.	Locality.
95			Melanla tenebrosa <i>Lea</i> , e. 1.	Tennessee.
95			Cincinnatiensis <i>Lea</i> , e. 1.	Cincinnati.
95			comma <i>Conrad</i> , e. 1.	Alabama.
96			congesta <i>Conrad</i> , e. 1.	Alabama.
96			elevata <i>Say</i> , e. 1.	Ohio river.
			<i>M. elongata</i> <i>Lea</i> ?	
96			excurata <i>Conrad</i> , e. 1.	Alabama.
96			? integra <i>Say</i> , e. 1.	Ohio river.
96			teres <i>Lea</i> , e. 1.	Tennessee.
96			obtusa <i>Lea</i> , e. 1.	Tennessee.
96			Lecontiana <i>Lea</i> , e. 1.	Georgia.
96			rugosa <i>Lea</i> , e. 1.	Tennessee.
96			monozonalis <i>Lea</i> , e. 1.	Tennessee.
96			terebralis <i>Lea</i> , e. 1.	Tennessee.
96			columella <i>Lea</i> , e. 1.	Tennessee.
97			blanda <i>Lea</i> , e. 1.	Tennessee.
97			orebri-costata <i>Lea</i> , e. 1.	Tennessee.
97			laqueata <i>Say</i> , e. 1.	Tennessee.
97			lima <i>Conrad</i> , e. 1.	Alabama.
97			multilineata <i>Say</i> , e. 1.	Penn'a, N. J.
97			nupera <i>Say</i> , e. 1.	Wabash river.
97			nassula <i>Conrad</i> , e. 1.	Alabama.
97			Curreyana <i>Lea</i> , e. 1.	Kentucky.
97			Edgariana <i>Lea</i> , e. 1.	Tennessee.
98			decora <i>Lea</i> , e. 1.	Tenn., Ky.
98			costulata <i>Lea</i> , e. 1.	Tenn., Ky.
98			nitens <i>Lea</i> , e. 1.	Tennessee.
98			Deshayesiana <i>Lea</i> , e. 1.	Tennessee.
98			concinna <i>Lea</i> , e. 1.	Tennessee.
98			babylonica <i>Lea</i> , e. 1.	Ohio.
98			arata <i>Lea</i> , e. 1.	Tennessee.
98			? obovata <i>Say</i> , e. 1.	Kentucky river.
98			olivula <i>Conrad</i> , e. 1.	Alabama.
98			prasinata <i>Conrad</i> , e. 1.	Alabama.
99			proxima <i>Say</i> , e. 1.	South Carolina.
99			pyrenella <i>Conrad</i> , e. 1.	North Alabama.
99			Potosiensis <i>Lea</i> , e. 1.	Missouri.
99			acuto-carinata <i>Lea</i> , e. 1.	Tennessee.
99			Warderiana <i>Lea</i> , e. 1.	Virginia.
99			sulcosa <i>Lea</i> , e. 1.	Tennessee.
99			striatula <i>Lea</i> , e. 1.	Tennessee.
99			pillula <i>Lea</i> , e. 1.	Tennessee.
99			circincta <i>Lea</i> , e. 1.	Tennessee.
99			venusta <i>Lea</i> , e. 1.	Tennessee.
99			Florentiana <i>Lea</i> , e. 1.	Tennessee, Ala.
100			salebrosa <i>Conrad</i> , e. 1.	Alabama.

Page.	Plate.	Fig.	Name.	Locality.
100			Melania semicarinata Say, e. l.	Kentucky.
			<i>M. acuta</i> Lea.	
100			simplex Say, e. l.	Virginia.
100			trilineata Say, e. l.	Ohio river.
100			trochiformis Conrad, e. l.	Alabama.
100			Troostiana Lea, e. l. [no description].	
100			Duttoniana Lea, e. l.	Tennessee.
100			Holstonia Lea, e. l.	Tennessee.
100			caliginosa Lea, e. l.	Tennessee.
100			nodulosa Lea, e. l.	Tennessee.
100			Boykiniana Lea, e. l.	Georgia.
101			catenoides Lea, e. l.	Georgia.
101			vestita Conrad, e. l.	
101			Anculosus carinatus De Kay.	
			<i>A. dissimilis</i> ?	
102	vii	137	Anculotus trivittatus De Kay.	
102			angulatus Conrad, e. l.	Alabama.
102	vii	139	costatus Anthony, e. l.	Ohio.
102			dentatus Couth., e. l.	Virginia.
102			melanoides Conrad, e. l.	Alabama.
102			monodontoides Conrad, e. l.	Virginia.
102			nigrescens Conrad, e. l.	Maryland.
103			plicatus Conrad, e. l.	Alabama.
103			pictus Conrad, e. l.	Alabama river.
103			prærosus Say, e. l.	Ohio.
103			pumilus Conrad, e. l.	Alabama.
103			subglobosus Say, e. l.	Virginia.
103			tæniatus Say, e. l.	Alabama.
103			Io fusiformis Lea, e. l.	Virginia.
			<i>Fusus fluvialtilis</i> Say.	
104	v	103	Littorina rudis Montagu.	
			<i>Turbo rudis</i> Montagu.	
			<i>obligatus</i> Say.	
105	vi	106	tenebrosa Montagu.	
			<i>Turbo tenebrosus</i> Montagu.	
			<i>vestitus</i> Say.	
105	vi	109-11	neritoides Linn.	
			<i>Turbo neritoides</i> Linn.	
			<i>L. palliata</i> Gould.	
106	vi	112 a, b	irrorata Say.	
			<i>Turbo irroratus</i> Say.	
106	v	105	palliata Say.	
			<i>Turbo palliatus</i> Say.	
107	vi	104	Margarita ornata De Kay.	
107			undulata Sowerby.	
			<i>Turbo incarnatus</i> Couth.	

Page.	Plate.	Fig.	Name.	Locality.
108	vi	107	Margarita arctica Lea. <i>Turbo inflatus</i> Totten.	
108	vi	113	cinerea Couth. <i>Turbo cinereus</i> Couth.	
109	vi	108	multilineata De Kay.	
109			obscura Couth., e. l.	Massachusetts.
109			argentata Gould, e. l.	Massachusetts.
110	iv	117	Cingula minuta Totten. <i>Turbo minutus</i> Totten.	
110	vi	115	aculeus Gould.	
111	vi	118	lævis De Kay.	
111	vi	119 a, b, c	Lacuna vineta Montagu. <i>Turbo vinctus</i> Montagu. <i>L. pertusa</i> Conrad. <i>Turbo quadrifasciatus</i> .	
112			neritoidea Gould, e. l.	Massachusetts.
112	vi	123	Turritella interrupta Totten. <i>Eulima? interrupta</i> Gould.	
113	vi	122	erosa Couth.	
113			impressa Say, e. l.	Seacoast.
113			æqualis Say, e. l.	Seacoast.
113			alternata Say, e. l.	Seacoast.
113			concava Say, e. l.	South Carolina.
114	viii	169	Pyramis striatula Couth.	
114	viii	170	Odostomia trifida Totten. <i>Actæon trifidus</i> Totten.	
115	viii	171	seminuda Adams. <i>Jaminia seminuda</i> Adams. <i>Pyramis fusca</i> Adams.	
115	xxxi	297	insculpta De Kay.	
116	xxxvi	342	fusca Adams. <i>Pyramis fusca</i> Adams.	
116	xxxi	296	producta Adams, e. l. <i>Jaminia producta</i> Adams.	Massachusetts.
116	xxxi	294-95	exigua Couth., e. l. <i>Jaminia exigua</i> Couth. <i>Turritella bisuturalis</i> Say.	Massachusetts.
117	xxxvi	349	Vermetus lumbricalis Lin., e. l.	Northern coast.
117	xxxii	203	Skenea serpuloides Adams. <i>Delphinula serpuloides</i> Adams.	
117			? laxa Say, e. l. <i>Delphinula laxa</i> Say.	South Carolina.
118	vi	130 a, b	Valvata tricarinata Say. <i>Cyclostoma tricarinata</i> Say.	
118	vi	129	unicarinata De Kay.	
119	vi	127-28	sincera Say.	

Page.	Plate.	Fig.	Name.	Locality.
119			Valvata arenifera <i>Lea</i> is the larva-case of some insect.	
119			pupoidea <i>Gould</i> , e. l.	Massachusetts.
120	vii	148	Natica heros <i>Say</i> .	
121	vii	147	<i>duplicata</i> <i>Say</i> .	
121	vii	144	<i>triseriata</i> <i>Say</i> .	
122	vii	146	<i>immaculata</i> <i>Totten</i> .	
122	vii	150	<i>clausa</i> <i>Sowerby</i> .	
			<i>N. consolidata</i> <i>Couth</i> .	
123	vii	145	<i>pusilla</i> <i>Say</i> .	
123			<i>flava</i> <i>Gould</i> .	
123			<i>canrena</i> <i>Lam</i> .	Asiatic, not Am.
123			<i>alba</i> <i>Say</i> [no description: doubtful].	
123			<i>lunata</i> <i>Say</i> [no description: doubtful].	

Trochidæ.

124			Ampullaria Hopetonensis <i>Lea</i> , e. l.	Georgia.
124			<i>rotundata</i> <i>Say</i> , e. l.	Florida.
124			<i>paludosa et depressa</i> <i>Say</i> , e. l.	Florida.
124			<i>Ampullaria penesma</i> <i>Say</i> , MSS.	
			<i>disseminata</i> <i>Say</i> , MSS.	
125	xxxvi	360	Janthina fragilis <i>Bruguiere</i> .	
125	vi	124 a, b	Scalaria subulata <i>Couth</i> .	
			<i>S. Grænlantica</i> <i>Gould</i> .	
			<i>Turbo clathrus-Grænlanticus</i> <i>Chemnitz</i> .	
126	vi	125	<i>lineata</i> <i>Say</i> .	
126			<i>multistriata</i> <i>Say</i> .	
127	vi	126	Novangliæ <i>Couth</i> ., e. l.	
127			<i>clathrus</i> <i>Linn.</i> , e. l.	Southern coast.
127			<i>turbinata</i> <i>Conrad</i> , e. l.	North Carolina.
127	vii	143	Tornatella puncto-striata <i>Adams</i> .	
128			Pirena scalariformis <i>Say</i> , e. l.	Florida Keys.

Cerithidæ.

128	viii	167	Cerithium Sayii <i>Gould</i> .	
			<i>Pasithea nigra</i> <i>Totten</i> .	
			<i>Cerithium reticulatum</i> <i>Totten</i> .	
129			<i>ferrugineum</i> <i>Say</i> , e. l.	Florida.
129	viii	168	<i>Emersonii</i> <i>Adams</i> , e. l.	Nantucket.
129			<i>septemstriatum</i> <i>Say</i> , e. l.	Florida.
129			<i>nigrocinctum</i> <i>Adams</i> , e. l.	Massachusetts.
130	viii	172	<i>terebræle</i> <i>Adams</i> , e. l.	Massachusetts.
130			<i>Greeni</i> <i>Adams</i> , e. l.	Massachusetts.
130			<i>muscarum</i> <i>Say</i> , e. l.	Florida.

Purpuridæ.

130	vii	161	Buccinum undatum <i>Linn.</i>	
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Page.	Plate.	Fig.	Name.	Locality.
131	vii	162*	Buccinum lunatum Say. <i>Nassa lunata</i> Say.	
132	vii	162	Wheatleyi De Kay.	
132	viii	165	trivittatum Say. <i>Nassa trivittata</i> Say.	
133	viii	163-64	obsoletum Say. <i>Nassa obsoleta</i> Say. <i>B. Noveboracensis</i> Wood. <i>oliverformis</i> Kiener.	
133			vibex Say. <i>Nassa vibex</i> Say.	
134			Donovani Gould, e. l.	
134			ciliatum Gould, e. l.	
134			rosaceum Gould, e. l.	
134			acutum Say, e. l.	Southern coast.
134			unicinctum Say, e. l.	South Carolina.
134			ornatum Say, e. l.	Southern coast.
134			album Say, e. l.	Florida.
135	viii	175	Purpura lapillus Linn. <i>Buccinum lapillus</i> Linn.	
136	viii	173	imbricata Lam. <i>P. lapillus</i> (var.) Russel.	
136	viii	174	bizonalis Lam. <i>P. lapillus</i> (var.) Gould	
136			Floridana Conrad, e. l.	Florida, Ala.
137	viii	178 a, b	Trichotropis borealis Sowerby. <i>T. costellatus</i> Couth.	
138	vii	160	Cancellaria Couthouyi Jay. <i>C. buccinoides</i> Couth.	
139	viii	176 a, b	Ranella caudata Say.	
139	viii	179	Columbella avara Say.	
140	ix	190	Pyrula canaliculata Linn. <i>Murex canaliculatus</i> Linn.	
141	ix	192-93	carica Linn. <i>Murex carica</i> Linn.	
142	viii	180-81	spirata Lam. <i>Fulgur pyruloides</i> Say.	
142			papyratia Say, e. l.	Southern coast.
143	viii	182	Fusus scalariformis Gould? <i>F. borealis</i> De Kay.	
144	viii	185	Islandicus Linn. <i>Murex Islandicus</i> Linn <i>F. corneus</i> Say. <i>Islandicus</i> var. <i>pygmaeus</i> Gould.	
144	viii	183	ventricosus Gray.	

Page.	Plate.	Fig.	Name.	Locality.
145	viii	184 a, b	Fusus cinereus Say. <i>Buccinum plicosum</i> Gould.	
145	ix	186	decemcostatus Say. <i>F. carinatus</i> Lam.?	
146	ix	187	harpularius Couth.	
146	ix	189	rufus Montagu. <i>Murex rufus</i> Montagu. <i>F. pleurotomarius</i> Couth.	
147	ix	188	imbricatus De Kay.	
147	ix	191	pyruloides De Kay.	
148			tornatus Gould. <i>Murex despectus</i> Linn.	
148	xxxvi	339	bamfius Montagu. <i>Murex bamfius</i> Montagu.	
148			bicolor Say, e. l.	Florida.
149			muricatus Gould, e. l.	Northern coast.
149	xxxvi	340	turriculus Gould, e. l.	
149	vi	113	Pleurotoma bicarinata Couth.	
150	xxxvi	344	decussata Couth.	
150	vi	120	plicata Adams.	
151	viii	177	Rostellaria occidentalis Guérin, e. l.	Maine.

Conidae.

151			Conus mus Lam., e. l.	Florida Keys.
151			leucostrictus Gmelin, e. l.	

Mitriadae.

152	vii	158	Terebra dislocata Say, e. l. <i>Cerithium dislocatum</i> Say. <i>T. Petitii</i> Kiener.	Md. & S'm coast.
152	vii	157	Oliva literata Lam., e. l. <i>O. mutica</i> Say.	Southern coast.
152	vii	159	Marginella carnea Storer, e. l.	Key West.

Cryptostomidae.

153	vii	156 a, b	Sigaretus perspectivus Say.	
153			haliotoideus Gould, e. l. <i>S. oxineæ</i> Couth.	Massachusetts.
153			maculatus Say, e. l.	Southern coast.
154	xxiii	254	Velutina lævigata Linn. <i>Helix lævigata</i> Linn. <i>V. capuloidea</i> Blainville. <i>rupicola</i> Conrad. <i>Galcriculum lævigatum</i> Brown.	

Page.	Plate.	Fig.	Name.	Locality.
154	xxiii	253	Velutina zonata Gould. <i>Galericulum ovatum</i> Couth.?	
SCUTIBRANCHIA.				
Calyptriadæ.				
155	vii	155 a, b	Calyptra striata Say.	
156	ix	195	Cemoria Noachina Linn. <i>Patella Noachina</i> Linn. <i>C. Flemingii</i> Leach. <i>Rimula Noachina</i> Couth.	
156			alternata Say? e. l.	Coast of U. S.
			<i>Fissurella alternata</i> Say.	
157	vii	152-4	Crepidula fornicata Linn. <i>Patella fornicata</i> Linn.	
158	vii	153 a, b	plana Say. <i>C. unguiformis</i> Lam.?	
158	vii	131	convexa Say.	
159			glauca Say.	
159			depressa Say, e. l.	Southern coast.
159			intorta Say? e. l.	Southern coast.

CIRROBRANCHIA.**Dentalidæ.**

160	x	197	Dentalium dentalis Linn.	
161			attenuatum Say, e. l.	Maryland.

CYCLOBRANCHIA.**Patellidæ.**

161			Patella candida Couth.	
162	ix	196	Patelloidea testudinalis Müller. <i>Patella amœna</i> Say. <i>testudinalis</i> Lea. <i>Lottia testudinalis</i> Gould.	
162	ix	194	alveus Conrad. <i>Patella alveus</i> Conrad. <i>Lottia alveus</i> Gould.	

Chitonidæ.

163	x	200	Chiton albus Montagu. <i>C. sagrinatus</i> Couth. <i>aselloides</i> Lowe.	
164	x	201-2	apiculatus Say. <i>C. pectinatus</i> Gould.	
164			marginatus Pennant, e. l.	Massachusetts.

Page.	Plate.	Fig.	Name.	Locality.
165	x	199	<i>Chiton fulminatus</i> Couth., e. l.	Massachusetts.
165			<i>ruber</i> Lowe, e. l.	Massachusetts.
165	x	198	<i>Emersonii</i> Couth., e. l.	Mass. bay.

ACEPHALA.**BRACHIOPODA.****Terebratulidæ.**

167	xxxiv	321	<i>Terebratula caputserpentis</i> Lin., e. l.	Me. & Mass.
			<i>T. septentrionalis</i> Couth.	
167	xxxiv	322	<i>psittacea</i> Gmelin, e. l.	Massachusetts.
			<i>thalassina</i> Gould, e. l. [no description].	

LAMELLIBRANCHIA.**Ostracidæ.**

168	xii	209	<i>Anomia ephippium</i> Linn.	
			<i>A. patellaris</i> Lam.	
168	xii	210	<i>aculeata</i> Gmelin.	
168			<i>electrica</i> , e. l. [not described].	Massachusetts.
168			<i>squamula</i> , e. l. [not described].	Massachusetts.
169	x	203-4	<i>Ostrea borealis</i> Lam.	
			<i>O. virginica</i> Lam.	
			<i>Canadensis</i> Lam.	
171			<i>semicylindrica</i> Say, e. l.	Ga. & Florida.
171			<i>equestris</i> Say.	S. C. & Florida.

Pectinidæ.

172	xi	205	<i>Pecten concentricus</i> Say.	
			<i>P. lineolaris</i> Lam.?	
173	xi	206	<i>Islandicus</i> Müller.	
			<i>Ostrea Islandica</i> Müller.	
			<i>P. Pealeii</i> Conrad.	
173	xi	207 A, B	<i>Magellanicus</i> Gmelin.	
			<i>Ostrea Magellanica</i> Gmelin.	
174			<i>purpuratus</i> Lam., e. l.	Southern coast.
			<i>P. dislocatus</i> Say.	
174			<i>ornatus</i> Lam., e. l.	Florida.
174			<i>nodosus</i> Lam., e. l.	Florida.
174			<i>varius</i> Turton, e. l.	Northern coast.
174			<i>Plicatula ramosa</i> Lam., e. l.	
175			<i>Lima squamosa</i> Lam., e. l.	Florida.
175	xi	208	<i>glacialis</i> Lam., e. l.	Florida.

Aviculidæ.

175			<i>Avicula Atlantica</i> Lam., e. l.	Southern coast.
			<i>A. hirundo</i> Say.	

Arcadæ.

Page.	Plate.	Fig.	Name.	Locality.
176	xii	211	<i>Arca pexata</i> Say.	
177	xii	212	<i>transversa</i> Say.	
177			<i>ponderosa</i> Say, e. l.	Southern coast.
177			<i>incongrua</i> Say, e. l.	Southern coast.
178	xii	217 a, b	<i>Nucula thraciæformis</i> Storer.	
179	xii	216	<i>radiata</i> De Kay.	
179	xii	215	<i>proxima</i> Say.	
180	xiii	221 a, b	<i>Gouldi</i> De Kay.	
180	xiii	219	<i>myalis</i> Couth., e. l.	Northern coast.
180	xiii	218	<i>limatula</i> Say, e. l.	Maine & Mass.
180	xiii	220	<i>sapotilla</i> Gould, e. l.	Northern coast.
180			<i>navicularis</i> Couth., e. l.	
181			<i>tenuis</i> Gould, e. l.	
181	xii	213	<i>minuta</i> Gould, e. l.	
			<i>N. tenuisulcata</i> Couth.	
181			<i>acuta</i> Conrad, e. l.	Virginia.

Mytilidæ.

182	xiii	222	<i>Mytilus borealis</i> Lam.	
			<i>M. edulis</i> Gould.	
182	xiii	223	<i>notatus</i> De Kay.	
183	xxiv	256	<i>pellucidus</i> Pennant.	
			<i>M. edulis</i> var. <i>pellucidus</i> Gould.	
183			<i>incurvatus</i> Lam., e. l.	Northern shores.
			an <i>M. borealis</i> var. ?	
183			<i>ungulatus</i> Linn., e. l.	
183			<i>cubitus</i> Say, e. l.	Seacoast.
183			<i>lateralis</i> Say, e. l.	Southern coast.
183			<i>hamatus</i> Say, e. l.	Southern coast.
			<i>M. striatus</i> Barnes.	
184			<i>leucopheatus</i> Conrad, e. l.	Southern coast.
184	xxiv	258	<i>Modiola plicatula</i> Lam.	
			<i>M. semicostata</i> Conrad.	
185	xxiv	257	<i>modiolus</i> Linn.	
			<i>Mytilus modiolus</i> Linn.	
			<i>Modiola papuana</i> Lam.	
185			<i>pectinula</i> Gould, e. l.	St. George's b'ks.
185			<i>nexa</i> Gould, e. l.	Massachusetts.
185			<i>discrepans</i> Montagu, e. l.	Massachusetts.
185			<i>discors</i> Montagu, e. l.	Massachusetts.
186			<i>Carolinensis</i> Conrad, e. l.	Charleston, S. C.
186			<i>Americana</i> Leach, e. l.	Southern coast.
186			<i>castanea</i> Say, e. l.	Southern coast.

Page.	Plate.	Fig.	Name.	Locality.
186	xxii	248	Crenella decussata <i>Laskey & Montagu.</i> <i>Mytilus decussatus</i> Laskey & Montagu. <i>Modiola glandula</i> Totten.	
187			Pinna seminuda <i>Lam., e. l.</i>	Southern coast.
187			<i>muricata</i> <i>Lam., e. l.</i>	Southern coast.

Unionidæ.

188	xxii	246	Unio complanatus <i>Solander.</i> <i>Mya complanata</i> Solander. <i>U. purpureus</i> Say.	
189			Boydianus <i>Lea.</i>	
189	xviii	236	radiatus <i>Gmelin.</i> <i>Mya radiata</i> Gmelin.	
190			ventricosus <i>Barnes.</i> <i>U. occidentis</i> Lea?	
190	xx	241	luteolus <i>Lam.</i> <i>U. siliquoides</i> Barnes. <i>inflatus</i> Barnes.	
191	xxi	245	compressus <i>Lea.</i> <i>Symphynota compressa</i> Lea.	
191	xx	239	nasutus <i>Say.</i> <i>U. rostratus</i> Valenciennes.	
192	xxxix	355-6; xl 357	Unio rosaceus <i>De Kay.</i>	
193	xix	237-38	Unio ochraceus <i>Say.</i> <i>Symphynota ochracea</i> Lea.	
193	xxi	243-44	cariosus <i>Say.</i> <i>U. ovata</i> Valenciennes.	
194	xx	240	Novi-eboraci <i>Lea.</i>	
194	xx	242	Tappanianus <i>Lea.</i>	
195			alatus <i>Say.</i>	
195			rectus <i>Lea.</i> <i>U. praelongus</i> Barnes.	
196	xiv	226	Alasmodonta rugosa <i>Barnes.</i> <i>Margaritana rugosa</i> Lea.	
196	xiv	225	marginata <i>Say.</i> <i>Monodonta marginata</i> Say. <i>Margaritana marginata</i> Lea.	
197	xiv	224	arcuata <i>Barnes.</i> <i>Margaritana margaritifera</i> Lea.	
198	xv	227	undulata <i>Say.</i> <i>Margaritana undulata</i> Lea.	
198	xxiv	259	corrugata <i>De Kay.</i>	
199	xv	228	Anodon unadilla <i>De Kay.</i>	
200	xvi	229	subcylindracea <i>Lea.</i>	
200	xvi	230	Ferussaciana <i>Lea.</i>	

Page.	Plate.	Fig.	Name.	Locality.
201	xvi	231	Anodon edentula Say. <i>Alasmodonta edentula</i> Say. <i>Anodon areolatus</i> Swainson.	
201	xvii	232	plana Lea.	•
202	xvii	233	excurvata De Kay.	
202			implicata Say. <i>A. Newtoniensis</i> Lea. <i>marginata</i> Say (young).	
203	xviii	234	fluviatilis Dillwyn. <i>A. cataracta</i> Say.	
203	xi	358	pavonia Lea.	
204	xviii	235	Benedictensis Lea. <i>Symphynota Benedictensis</i> Lea.	
Cardidæ.				
204	xxii	247	Cardita borealis Conrad. <i>Venericardia cibraria</i> Say?	
205			incrassata Conrad, e. l.	Florida.
205			tridentata Say, e. l.	South Carolina.
			<i>Venericardia tridentata</i> Say.	
205	xxii	249	Cardium pinnulatum Conrad.	
206	xxiii	252	Islandicum Linn. <i>C. pubescens</i> Couth.	
206	xxiii	250	Grœnlandicum Gmelin. <i>Aphrodita columba</i> Lea.	
207	xxiii	251	Mortoni Conrad.	
207			fasciatum Montagu, e. l.	
207			muricatum Linn., e. l.	S. C. & Florida.
207			ventricosum Bruguiere, e. l.	South Carolina.
Chamidæ.				
208			Chama arcinella Lam., e. l.	Florida.
CONCHIFERA.				
Tellinidæ.				
209	xxvi	271	Tellina tenera Say.	
209	xxvi	272	versicolor Cozzens.	
210			tenta Say.	
210			lateralis Say, e. l.	Seacoast.
210			polita Say, e. l.	Southern coast.
210			iris Say, e. l.	Southern coast.
210			flexuosa Say, e. l.	Southern coast.
211			interstriata Say, e. l.	East Florida.
211			alternata Say, e. l.	Ga. & E. Florida.
211			decora Say, e. l.	East Florida.
211			mera Say, e. l.	

Page.	Plate.	Fig.	Name.	Locality.
211	xxiii	255	Donax fossor Say.	
212			<i>variabilis</i> Say, e. 1.	Ga. & Florida.
212			<i>elevata</i> Hald., e. 1.	New Orleans.
212	xxv	260	Capsa lævigata Conrad, e. 1.	Florida.
212			<i>defflorata</i> Conrad, e. 1.	Florida.
212	xxxii	304	Sanguinolaria fusca Say.	
			<i>Psammobia fusca</i> Say.	
213	xxxii	305	<i>sordida</i> Couth.	
			<i>Tellina sordida</i> Couth.	
213			<i>lusoria</i> Say, e. 1.	N. J. to Florida.
			<i>Psammobia lusoria</i> Say.	
213			<i>rugosa</i> Lam., e. 1.	Florida.
214	xxvi	273	Lucina divaricata Linn.	
			<i>Tellina divaricata</i> Linn.	
			<i>Strigilla divaricata</i> Turton.	
214	xxvi	274	<i>radula</i> Montagu, e. 1.	Northern coast.
214	xxvii	275	<i>contracta</i> Say, e. 1.	Rhode Island.
214			<i>flexuosa</i> Montagu, e. 1.	Northern coast.
Veneridæ.				
215	xxvi	268-69	Cyprina Islandica Linn.	
			<i>Venus Islandica</i> Linn.	
216	xxvii	279	Cytherea convexa Say.	
216			<i>occulta</i> Say, e. 1.	Southern States.
216			<i>concentrica</i> Lam., e. 1.	Va. to Florida.
216			<i>gigantea</i> Lam., e. 1.	Southern States.
217	xxvii	276	Venus mercenaria Linn.	
218	xxvii	278	<i>notata</i> Say.	
218	xxvii	277	<i>gemma</i> Totten.	
219			<i>præparca</i> Say.	
			<i>V. notata</i> (var. ?) Gould.	
219			<i>inequalis</i> Say, e. 1.	N. J. & Maryland.
219			<i>elevata</i> Say, e. 1.	Southern Coast.
219			<i>Mortoni</i> Conrad, e. 1.	Coast of N. & S. C.
220			<i>fluctuosa</i> Gould, e. 1.	
220	xxviii	280	Astarte castanea Say.	
			<i>Venus castanea</i> Say.	
			<i>Crassina castanea</i> Conrad.	
			var. <i>picea</i> .	
			var. <i>procera</i> .	
221	xxviii	281	<i>sulcata</i> Montagu.	
			<i>Venus sulcata</i> Montagu.	
			<i>Crassina sulcata</i> Turton.	
			<i>Astarte Danmoniensis</i> Totten.	
221			<i>lactea</i> Broderip & Soub., e. 1.	Grand Banks.
221			? <i>quadrans</i> Gould, e. 1.	Massachusetts.

Cycladæ.

Page.	Plate.	Fig.	Name.	Locality.
222	xxv	264-65	Cyclas similis Say. <i>C. Saratogea et sulcata</i> Lam.	
223	xxv	261	dubia Say. <i>S. striatina</i> Lam.	
223	xxv	262	partumeia Say. <i>C. cornea</i> (var. 2, 3.) Lam.	
224	xxv	263	rhomboidea Say. <i>elegans</i> Adams.	
225			edentula Say.	
225			transversa Say, e. 1.	Kentucky.
225			staminea Conrad, e. 1.	
225			elevata Hald., e. 1.	New Orleans.
226			Pisidium abruptum Hald., e. 1.	Elk river, Md.
226			abditum Hald., e. 1.	Lancaster Co., Pa.
226	xxv	266	Cyrena Carolinensis Bosc., e. 1.	Carolina.

Saxicavidæ.

227	xxxiii	309 a, b	Saxicava distorta Say.	
228	xxviii	282	Petricola pholadiformis Lam. <i>Petricola fornicata</i> Say.	
228	xxviii	283	dactylus Sowerby.	

Macridæ.

229	xxix	286	Mactra solidissima Chemnitz. <i>M. gigantea</i> Lam. <i>Spissula gigantea</i> Gray.	
230	xxix	287	lateralis Say. <i>Mulinia lateralis</i> Gray.	
230			ovalis Gould, e. 1.	Northern coast.
230			similis Say, e. 1.	R. I., N. Y.?
230			fragilis Chemnitz, e. 1. <i>M. oblonga</i> Say.	Georgia.
231			nuculus Conrad, e. 1.	New Jersey.
231	xxix	288 a, b	Mesodesma arctata Conrad. <i>Mactra arctata</i> Conrad. <i>deaurata</i> Conrad.	
231			Mactra Jauresii Guérin, e. 1.	Grand Banks.
232	xxxi	298	Lutraria canaliculata Say, e. 1.	Md. to Florida.
232			lineata Say, e. 1. <i>L. papyratia</i> Conrad.	Ga. & Florida.
232			Montacuta bidentata Montagu, e. 1.	New Bedford.
232			Kellea rubra Turton, e. 1.	New Bedford.
233			Cumingia tellinoides Conrad. <i>Mactra tellinoides</i> Conrad.	

Page.	Plate.	Fig.	Name.	Locality.
233	xxv	267	Gnathodon cuneatum Sowerby, e. l.	Mobile.
233			flexuosum Conrad, e. l. [no description].	
Anatinidæ.				
234	xxxiii	311 a, b	Osteodesma hyalina Conrad.	
			<i>Mya hyalina</i> Conrad.	
			<i>Lyonsia hyalina</i> Conrad.	
			<i>Amphidesma corbuloides</i> Mass. Cat., p. 25.	
235	xxxi	300	Anatina papyracea Say.	
			<i>A. papyratia fragilis</i> Totten.	
236	xxxi	299, 301	Cochlodesma Leana Conrad.	
			<i>Anatina Leana</i> Conrad.	
237	xxviii	284	Thracia Conradi Couth.	
			<i>Thracia declivis</i> Conrad.	
237			Amphidesma flexuosa Lam., e. l.	Massachusetts.
237			transversa Say, e. l.	Long Isl. ? S. C.
237			? punctata Say, e. l.	Southern coast.
237			orbiculata Say, e. l.	Georgia.
238			radiata Say, e. l.	East Florida.
238			lepida Say, e. l.	South Carolina.
238			æqualis Say, e. l.	Southern coast.
Myadæ.				
239	xxxiii	310	Pandora trilineata Say.	
			<i>P. nasuta</i> Sowerby.	
240	xxx	290	Mya arenaria Linn.	
			<i>M. mercenaria</i> Say.	
240			acuta Say, e. l.	Southern coast.
240	xxix	289	truncata Linn., e. l.	Grand Banks.
241	xxviii	285	Corbula contracta Say.	
Solenidæ.				
242	xxxii	313	Solen ensis Lin.	
243	xxxiii	312	viridis Say, e. l.	Southern coast.
243	xxxii	307	Lepton fabagella Conrad, e. l.	Rhode Island.
243	xxxii	302	Solecurtus caribæus Lam.	
			<i>Solen caribæus</i> Lam.	
244			fragilis Montagu, e. l.	Mass., S'n coast.
			<i>S. centralis</i> Say.	
244	xxxii	301	Machæra costata Say.	
			<i>Solen costatus</i> Say.	
			<i>Solecurtus costatus</i> Say.	
245			nitida Gould, e. l.	Massachusetts.
245	xxx	292	Solemya velum Say.	
246	xxx	291	borealis Totten, e. l.	Mass., R. I.

Page.	Plate.	Fig.	Name.	Locality.
246			<i>Panopæa arctica</i> Lam., e. l.	Grand Banks.
246	xxxiii	308	<i>Glycimeris siliqua</i> Lam., e. l.	Grand Banks.

Pholidæ.

247	xxxii	306	<i>Pholas crispata</i> Linn.	
248	xxxiv	223	<i>truncata</i> Say.	
248			<i>costata</i> Linn., e. l.	Massachusetts.
248			<i>cuneiformis</i> Say, e. l.	Southern coast.
248			<i>oblongata</i> Say, e. l.	Car., Ga., Fla.

Teredinidæ.

249	xxxiv	325	<i>Teredo navalis</i> Linn.	
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TUNICATA.

259			<i>Ascidea Manhattensis</i> De Kay.	
259			<i>rustica</i> Lam., e. l.	Northern coast.
259			<i>plicata</i> Lesueur, e. l.	Philadelphia.
259			<i>ovalis</i> Lesueur, e. l.	Philadelphia.
259			<i>lobifera</i> Lesueur, e. l.	Florida.
259			<i>proboscidea</i> Lesueur, e. l.	Florida.
259			<i>intestinalis</i> [no description].	Northern coast.
259			<i>microcosmus</i> [no description].	Nor. coast.
260	xxxiv	324	<i>Boltenia reniformis</i> McLeay.	
			<i>Ascidia clavata</i> Müll. ?	
			<i>globifera</i> Sabine.	

Troost.—Seventh Annual Report on the Geology of Tennessee:
by G. Troost, M. D. 1844.

LIST OF SHELLS.

Page.		Page.	
40	<i>Unio Æsopus</i> Green.	40	<i>Unio circulus</i> Lea.
40	<i>alatus</i> Say.	40	<i>cælatus</i> Conr.
40	<i>amœnus</i> Lea.	40	<i>clavus</i> Lam.
40	<i>anodontoides</i> Lea.	40	<i>Conradicus</i> Lea.
40	<i>arcæformis</i> Lea.	40	<i>Cooperianus</i> Lea.
40	<i>argenteus</i> Lea.	40	<i>cornutus</i> Barnes.
40	<i>asperimus</i> Lea.	40	<i>crassidens</i> Lam.
40	<i>Barnesianus</i> Lea.	40	<i>crassus</i> Say.
40	<i>biangulatus</i> Lea.	40	<i>creperus</i> Lea.
40	<i>Bigbyensis</i> Lea.	40	<i>Cumberlandicus</i> Lea.
40	<i>brevidens</i> Lea.	40	<i>cuneolus</i> Lea.
40	<i>capsæformis</i> Lea.	40	<i>cylindricus</i> Say.

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40	<i>Unio dactylus</i> Lea.
40	<i>dehiscens</i> Say.
40	<i>dolabelloides</i> Lea.
40	<i>dromas</i> Lea.
40	<i>ebenus</i> Lea.
40	<i>Edgarianus</i> Lea.
40	<i>elegans</i> Lea.
40	<i>ellipsis</i> Lea.
40	<i>fabalis</i> Lea.
40	<i>fatuus</i> Lea.
40	<i>foliatus</i> Hildr.
40	<i>fragosus</i> Contr.?
40	<i>gibbosus</i> Barnes.
40	<i>gibber</i> Lea.
40	<i>glaber</i> Lea.
40	<i>glans</i> Lea.
40	<i>gracilis</i> Barnes.
40	<i>Haysianus</i> Lea.
40	<i>Holstonensis</i> Lea.
40	<i>interruptus</i> Lea.
40	<i>iris</i> Lea.
40	<i>irroratus</i> Lea.
40	<i>lachrymosus</i> Lea.
40	<i>lenior</i> Lea.
40	<i>lens</i> Lea.
41	<i>Lesueurianus</i> Lea.
41	<i>lienosus</i> Contr.?
41	<i>Menkeianus</i> Lea.
41	<i>mæstus</i> Lea.
41	<i>metanever</i> Raf.
41	<i>Muhlfeldtianus</i> Lea.
41	<i>multiplicatus</i> Lea.
41	<i>multiradiatus</i> Lea.
41	<i>mytiloides</i> Raf.
41	<i>monodontus</i> Say.
41	<i>Nashvillianus</i> Lea.
41	<i>nitens</i> Lea.
41	<i>notatus</i> Lea.
41	<i>obscurus</i> Lea.
41	<i>occidens</i> Lea.
41	<i>ochraceus</i> Say?
41	<i>orbiculatus</i> Hildr.?
41	<i>ovatus</i> Say.
41	<i>parvus</i> Barnes.
41	<i>patulus</i> Lea.

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41	<i>Unio pectorosus</i> Contr.
41	<i>perdix</i> Lea.
41	<i>perplexus</i> Lea.
41	<i>personatus</i> Say.
41	<i>phaseolus</i> Hildr.
41	<i>pictus</i> Lea.
41	<i>pilaris</i> Lea.
41	<i>plicatus</i> Les.
41	<i>pulcher</i> Lea.
41	<i>pustulatus</i> Lea.
41	<i>pustulosus</i> Lea.
41	<i>pyramidatus</i> Lea.
41	<i>Ravenellianus</i> Lea.
41	<i>rectus</i> Lam.
41	<i>regularis</i> Lea.
41	<i>retusus</i> Lam.
41	<i>rubiginosus</i> Lea.
41	<i>securis</i> Lea.
41	<i>simus</i> Lea.
41	<i>Sowerbianus</i> Lea.
41	<i>sparsus</i> Lea.
41	<i>Stonensis</i> Lea.
41	<i>subrotundus</i> Lea.
41	<i>subtentus</i> Say.
41	<i>sulcatus</i> Lea.
41	<i>tener</i> Lea.
41	<i>Tennesseeensis</i> Lea.
41	<i>triangularis</i> Barnes.
41	<i>trigonus</i> Lea.
41	<i>Troostensis</i> Lea.
41	<i>tuberculatus</i> Barnes.
41	<i>tuberosus</i> Lea.
41	<i>undulatus</i> Barnes.
41	<i>Vanuxemensis</i> Lea.
41	<i>varicosus</i> Lea.
41	<i>ventricosus</i> Barnes.
41	<i>verrucosus</i> Barnes.
41	<i>Zeiglerianus</i> Lea.
41	<i>zig-zag</i> Lea.
41	<i>Margaritana complanata</i> Lea.
41	<i>Curreyiana</i> Lea.
41	<i>deltoidea</i> Lea.
41	<i>fabula</i> Lea.
41	<i>Holstonia</i> Lea.

Page.		Page.	
41	<i>Margaritana marginata</i> Lea.	42	<i>Melania globula</i> Lea.
41	<i>Raveneliana</i> Lea.	42	<i>gracilis</i> Lea.
41	<i>rugosa</i> Lea.	42	<i>Holstonia</i> Lea.
41	<i>Anodonta argentea</i> Lea.	42	<i>monozonalis</i> Lea.
41	<i>Harpethensis</i> Lea.	42	<i>nitens</i> Lea.
41	<i>marginata</i> Lea.	42	<i>nodulosa</i> Lea.
42	<i>Melania acuta</i> Lea.	42	<i>obtusa</i> Lea.
42	<i>acuto-carinata</i> .	42	<i>Ocoeensis</i> Lea.
42	<i>armigera</i> Say.	42	<i>pilula</i> Lea.
42	<i>blanda</i> Lea.	42	<i>plicatula</i> Lea.
42	<i>caliginosa</i> Lea.	42	<i>regularis</i> Lea.
42	<i>castanea</i> Lea.	42	<i>rufa</i> Lea.
42	<i>Cincinnatiensis</i> Lea.	42	<i>sordida</i> Lea.
42	<i>circincta</i> Lea.	42	<i>spixiana</i> Lea.
42	<i>clavæformis</i> Lea.	42	<i>striata</i> Lea.
42	<i>columella</i> Lea.	42	<i>strigosa</i> Lea.
42	<i>concinna</i> Lea.	42	<i>subcylindræa</i> Lea.
42	<i>corrugata</i> Lea.	42	<i>subglobosa</i> Lea.
42	<i>costulata</i> Lea.	42	<i>subsolida</i> Lea.
42	<i>crebricostata</i> Lea.	42	<i>sulcosa</i> Lea.
42	<i>Curreyana</i> Lea.	42	<i>tenebrosa</i> Lea.
42	<i>decora</i> Lea.	42	<i>terebralis</i> Lea.
42	<i>dubiosa</i> Lea.	42	<i>teres</i> Lea.
42	<i>Duttoniana</i> Lea.	42	<i>Troostiana</i> Lea.
42	<i>ebenum</i> Lea.	42	<i>venusta</i> Lea.
42	<i>Edgariana</i> Lea.	42	<i>virgata</i> Lea.
42	<i>elongata</i> Lea.	42	<i>Io fusiformis</i> Lea.
42	<i>exarata</i> Lea.	42	<i>spinosa</i> Lea.
42	<i>fuliginosa</i> Lea.	42	<i>Polygyra Dorfeuilliana</i> Lea.
42	<i>fusiformis</i> Lea.	42	<i>Troostiana</i> Lea.

Plummer.—Scraps in Natural History (Mollusca): by Dr. JOHN T. PLUMMER. (Amer. Journ. Sci. and Art, O. S., vol. xlviii, No. 1, pp. 93-96. Oct.-Dec. 1844.)

Together with notes on the habits of Mollusks, is the following list of the shells about Richmond, Wayne Co., Indiana:—

Page.		Page.	
95	<i>Helix albolabris</i> Say.	95	<i>Helix fallax</i> Say.
95	<i>arborea</i> Say.	95	<i>fraterna</i> Say.
95	<i>alternata</i> Say.	95	<i>fuliginosa</i> Griff.
95	<i>clausa</i> Say.	95	<i>hirsuta</i> Say.
95	<i>elevata</i> Say.	95	<i>inflecta</i> Say.

Page.		Page.	
95	<i>Helix ligera</i> Say.	96	<i>Paludina limosa</i> Say.
95	<i>multilineata</i> Say.	96	<i>lapidaria</i> Say.
95	<i>palliat</i> a Say.	96	<i>Physa heterostroph</i> a Say.
95	<i>perspectiva</i> Say.	96	<i>gyrina</i> Say.
95	<i>profunda</i> Say.	96	<i>Limnea elodes</i> Say.
95	<i>solitaria</i> Say.	96	<i>Melania exilis</i> Hald.
95	<i>tridentata</i> Say.	96	<i>Succinea obliqua</i> Say (<i>can-</i> <i>pestris</i>).
95	<i>thyroides</i> Say.	96	<i>Anodonta Ferussaciana</i> Lea.
95	<i>zaleta</i> Say.	96	<i>Cyclas similis</i> Say.
95	<i>Limax</i> — ?	96	<i>Alasmodonta edentula</i> Say.
95	<i>Planorbis bicarinatus</i> Say.	96	<i>calceola</i> Lea.
95	<i>parvus</i> Say.		
95	<i>trivolv</i> is Say.		

Linsley.—Catalogue of the Shells of Connecticut: by the late JAMES H. LINSLEY. (Amer. Journ. Sci. and Art, O. S., vol. xlviii, No. 2, pp. 271–286. Jan.–March, 1845. Same in pamphlet form, p. 1 being same as p. 271 of the Journal and so on.)

[No descriptions are given, but references to works and habitat. I omit Annulata and Cirripeda.—W. G. B.]

Page.		Page.	
273	<i>Teredo navalis</i> Linn.	274	<i>Mactra lateralis</i> Say.
273	— (n. sp.)	274	<i>quadrangulata</i> Linsley. (Conn. to Georgia.)
273	<i>Pholas crispata</i> Linn.	274	<i>Solemya borealis</i> Totten.
273	<i>cuneiformis</i> Say.	274	<i>velum</i> Say.
273	<i>truncata</i> Say.	274	<i>Mesodesma arctata</i> Gould. <i>Mactra arctata</i> Conr.
274	<i>Solen ensis</i> Linn.	274	<i>Montacuta bidentata</i> Mont.
274	<i>viridis</i> Say.	275	<i>Amphidesma æquale</i> Say.
274	<i>Solecurtus Caribæus</i> Lam.	275	<i>Kellia rubra</i> Turton.
274	(<i>Machæra</i>) <i>costatus</i> Gould.	275	<i>Corbula contracta</i> Say.
274	<i>fragilis</i> Conr.	275	<i>Pandora trilineata</i> Say.
274	<i>Mya arenaria</i> Linn. (<i>mercenaria</i> Say.)	275	<i>Saxicava distorta</i> Say.
274	<i>subtruncata</i> Linsley.	275	<i>Petricola dactylus</i> .
274	<i>Anatina papyracea</i> Say.	275	<i>pholadiformis</i> Lam.
274	<i>Thracia truncata</i> Michels.	275	<i>Sanguinolaria fusca</i> Conr. <i>sordida</i> Couth.
274	<i>Osteodesma hyalina</i> Conr.	275	<i>Tellina Balthica</i> Linn. <i>Sanguinolaria fusca</i> .
274	<i>Cochlodesma Leana</i> Conr.	275	<i>solidula</i> Soland.
274	<i>Cumingia tellinoides</i> Conr.	275	<i>tenera</i> Say.
274	<i>Mactra similis</i> Say.	275	<i>tenta</i> Say.
274	<i>solidissima</i> Chemn. <i>M. gigantea</i> Lam.		

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275	<i>Tellina versicolor</i> Cozzens.	277	<i>Anodonta areolata</i> Swains.
275	<i>Lucina flexuosa</i> Mont.	277	<i>fluviatilis</i> Dilwyn.
275	<i>radula</i> Mont.	277	<i>Housatonica</i> Linsley.
275	<i>Astarte castanea</i> Say.	277	<i>implicata</i> Say.
275	<i>mactracea</i> Linsley.	277	<i>marginata</i> Say.
	(With a wood-cut.)	277	<i>undulata</i> Say.
275	<i>quadrans</i> Gould.	277	<i>subcylindræa</i> Lea.
275	<i>sulcata</i> Mont.	277	<i>Modiola discors</i> Lam.
276	<i>Cyclas dubia</i> Say.	278	<i>glandula</i> Totten.
276	<i>elegans</i> Adams.	278	<i>modiolus</i> Turton.
276	<i>minor</i> Mighels.	278	<i>nexa</i> Gould.
276	<i>nitida</i> Mighels.	278	<i>plicatula</i> Lam.
276	<i>orbicularia</i> Barratt.	278	<i>Mytilus edulis</i> Linn.
276	<i>partumeia</i> Say.	278	<i>striatus</i> De Kay.
276	<i>rhomboidea</i> Say.		<i>M. pellucidus</i> Pennant.
276	<i>similis</i> Say.	278	<i>Pecten concentricus</i> Say.
276	<i>truncata</i> Linsley.	278	<i>Islandicus</i> Chemn.
276	<i>Cyprina Islandica</i> Lam.	278	<i>fuscus</i> Linsley.
276	<i>Cytherea convexa</i> Say.	278	<i>Ostrea borealis</i> Lam.
276	<i>morruana</i> Linsley.	278	<i>costata</i> De Kay.
276	<i>Venus gemma</i> Totten.	278	<i>Virginica</i> Gmel.
276	<i>mercenaria</i> Say.	278	<i>Anomia aculeata</i> Gmel.
276	<i>notata</i> Say.	278	<i>electrica</i> Linn.
276	<i>Cardium Grœnlandicum</i>	278	<i>ephippium</i> Linn.
	Chemn.	278	<i>squamula</i> Linn.
276	<i>Mortoni</i> Conr.	278	<i>Chiton fulminatus</i> Couth.
276	<i>pinnulatum</i> Conr.		<i>C. levigatus</i> Fleming?
276	<i>Cardita borealis</i> Conr.	278	<i>ruber</i> Lowe.
276	<i>Arca pexata</i> Say.	278	<i>Patella</i> ——— ?
276	<i>transversa</i> Say.	279	<i>Lottia alveus</i> Conr.
276	<i>Nucula limatula</i> Say.	279	<i>testudinalis</i> Müller.
277	<i>proxima</i> Say.	279	<i>Crepidula alata</i> Lea.
277	<i>sapotilla</i> Gould.	279	<i>convexa</i> Say.
277	<i>tenuis</i> Turton.	279	<i>depressa</i> Say.
277	<i>Unio cariosus</i> Say.	279	<i>fornicata</i> Lam.
277	<i>complanatus</i> Solander.	279	<i>glauca</i> Say.
277	<i>compressus</i> Lea.	279	<i>plana</i> Say.
277	<i>heterodon</i> Lea.	279	<i>Ancylus fuscus</i> Adams.
277	<i>nasutus</i> Say.	279	<i>rivularis</i> Say.
277	<i>ochraceus</i> Say.	279	<i>tardus</i> Say.
277	<i>Pequottinus</i> Linsley.	279	<i>Bulla debilis</i> Gould.
277	<i>radiatus</i> Barnes.	279	<i>insculpta</i> Totten.
277	<i>Alasmodonta arcuata</i> Barn.	279	<i>obstricta</i> Gould.
277	<i>marginata</i> Say.	279	<i>oryza</i> Totten.
277	<i>undulata</i> Say.	279	<i>triticea</i> Couth.

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|-------|---------------------------------|-------|----------------------------------|
| 279 | Limax campestris Binney. | 281 | Cyolostoma lapidaria Say. |
| 279 | <i>marmorata</i> De Kay. | 281 | Planorbis armigerus Say. |
| 279 | <i>tunicata</i> Gould. | 281 | <i>bicarinatus</i> Say. |
| | <i>L. agrestis</i> Linn. | 281 | <i>campanulatus</i> Say. |
| 279 | Helix albilabris Say. | 281 | <i>deflectus</i> Say. |
| 279 | <i>alternata</i> Say. | 282 | <i>dilatatus</i> Gould. |
| 280 | <i>arborea</i> Say. | 282 | <i>elevatus</i> Adams. |
| 280 | <i>chersina</i> Say. | 282 | <i>exacutus</i> Say. |
| 280 | <i>cellaria</i> Müller. | 282 | <i>hirsutus</i> Gould. |
| 280 | <i>electrina</i> Gould. | 282 | <i>lentus</i> Say. |
| 280 | <i>fraterna</i> Say. | 282 | <i>obliquus</i> De Kay. |
| 280 | <i>fuliginosa</i> Griffiths. | 282 | <i>parvus</i> Say. |
| 280 | <i>gularis</i> Say. | 282 | <i>trivolvus</i> Say. |
| 280 | <i>hirsuta</i> Say. | 282 | Physa aurea Lea = |
| 280 | <i>indentata</i> Say. | | <i>heterostropha</i> var. |
| 280 | <i>lineata</i> Say. | 282 | <i>elongata</i> Say. |
| 280 | <i>labyrinthica</i> Say. | | <i>P. hypnorum</i> Linn. |
| 280 | <i>minuscule</i> Binney. | 282 | <i>heterostropha</i> Say. |
| 280 | Trumbulli Linsley. | 282 | Sayi Tappan = |
| | (With a description.) | | <i>ancillaria</i> var. |
| | <i>Margarita arctica</i> ? Eds. | 282 | Lymnæa caperata Say. |
| 280 | <i>monodon</i> Rackett. | | <i>L. umbilicata</i> Adams. |
| 280 | <i>pulchella</i> Müller. | 282 | <i>chalybea</i> Gould. |
| 280 | <i>Sayii</i> Binney. | 282 | <i>columella</i> Say. |
| 280 | <i>suppressa</i> Say. | 282 | <i>decollata</i> Mighels. |
| 280 | <i>striatella</i> Anthony. | 282 | <i>desidiosa</i> Say. |
| 280 | <i>subglobosa</i> ? Binney. | 282 | <i>elodes</i> Say. |
| 280 | <i>tridentata</i> Say. | 282 | <i>emarginata</i> Say. |
| 280 | upa contracta Say. | 282 | <i>Linsleyi</i> De Kay. |
| 280 | <i>corticaria</i> Say. | | (With a description). |
| 280 | <i>pentodon</i> Say. | 282 | <i>macrostoma</i> Say. |
| 281 | <i>exigua</i> Say. | 283 | <i>modicellus</i> Say. |
| 281 | <i>fallax</i> Say. | | <i>L. humilis</i> Hald. |
| | <i>Cyolostoma marginata</i> S. | 283 | Valvata pupoidea Gould. |
| 281 | <i>Gouldii</i> Binney. | 283 | <i>tricarinata</i> Say. |
| 281 | <i>millium</i> Gould. | 283 | <i>unicarinata</i> De Kay. |
| 281 | <i>modesta</i> Say. | 283 | Paludina decisa Say. |
| 281 | <i>ovata</i> Say. | 283 | <i>integra</i> Say. |
| 281 | <i>simplex</i> Gould. | | <i>P. microstoma</i> Kirtland. |
| 281 | Bulinus lubricus Brug. | 283 | <i>lustrica</i> ? Say. |
| 281 | Succinea avara Say. | | <i>Amnicola</i> Gould. |
| 281 | <i>campestris</i> Say. | 283 | Amnicola Cincinnatiensis |
| 281 | <i>ovalis</i> Say. | 283 | <i>grana</i> Say. [Anthony. |
| 281 | Auricula bidentata Say. | 283 | <i>porata</i> Say. |
| 281 | <i>denticulata</i> Mont. | 283 | <i>pallida</i> Hald. |

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283	<i>Natica duplicata</i> Say.	284	<i>Odostomia trifida</i> Gould.
283	<i>flava</i> Gould.		<i>Actæon</i> Totten.
283	<i>heros</i> Say.	284	<i>Cerithium nigrocinctum</i>
283	<i>immaculata</i> Totten.		<i>Adams.</i>
283	<i>triseriata</i> Say.	285	<i>Sayi</i> Menke.
283	<i>Tornatella puncto-striata</i>	285	<i>Pleurotoma bicarinata</i> Cou.
	<i>Adams.</i>	285	<i>Fasciolaria ligata</i> <i>Mighels &</i>
283	<i>Vermetus lumbricalis</i> Lam.		<i>Adams.</i>
283	<i>Scalardia clathrus</i> Say.	285	<i>Fusus borealis</i> De Kay.
283	<i>Margarita obscura</i> Couth.	285	<i>corneus</i> Say (young).
283	<i>Turbo multilineatus</i> De Kay.	285	<i>imbricatus</i> De Kay.
284	<i>Lacuna neritoidea</i> Gould.	285	<i>harpularius</i> ? Couth.
284	<i>vincta</i> Mont.	285	<i>Trumbulli</i> Linsley.
	<i>L. fusca</i> De Kay.		(With desc. & wood-cut.)
284	— ?	285	<i>Pyrula canaliculata</i> Brug.
284	<i>Cingula aculeus</i> Gould.	285	<i>carica</i> Brug.
284	<i>arenaria</i> Mont.	285	<i>Ranella caudata</i> Say.
284	<i>minuta</i> Totten.	285	<i>Purpura lapillus</i> Say.
284	<i>Littorina irrorata</i> Say.	285	<i>Buccinum lunatum</i> Say.
284	<i>neritoides</i> De Kay.	285	<i>obsoletum</i> Say.
284	<i>palliat</i> Say.	285	<i>plicosum</i> Menke.
284	<i>rudis</i> Mont.	285	<i>rosaceum</i> Gould.
284	<i>tenebrosa</i> Mont.	285	<i>trivittatum</i> Say.
284	<i>Pyramis striatula</i> Couth.	285	<i>undatum</i> Linn.
284	<i>Turritella erosa</i> ? Couth.	285	<i>vibex</i> Say.
284	<i>interrupta</i> Totten.	285	<i>zonalis</i> Linsley.
284	<i>Odostomia exigua</i> Couth.	285	<i>Columbella avara</i> Say.
284	<i>fusca</i> Adams.	286	<i>Nautilus Connecticutensis</i>
284	<i>limnoidea</i> De Kay.		<i>Linsley.</i> (With a wood-cut).
284	<i>producta</i> Adams.	286	<i>Loligo illecebrosa</i> Lesueur.
284	<i>seminuda</i> Adams.	286	<i>punctata</i> De Kay.

Wheatley.—Catalogue of the Shells of the United States, with their Localities: by CHAS. M. WHEATLEY, Member Lyc. Nat. Hist. N. Y., Corr. Memb. Nat. Inst. Washington, Troy Lyc. Nat. Hist. New York, 1845. Second edition.

[No descriptions are given.]

Page.	No.	Name.	Locality.
1	1	<i>Dentalium dentale</i> Linn.	
1	2	<i>entalis</i> Linn.	Maine.
2	30	<i>Teredo navalis</i> Lam.	Staten Island.
2	31	<i>Pholas crispata</i> Linn.	Sandy Hook, N. Y.

Page.	No.	Name.	Locality.
2	32	<i>Pholas costata</i> Linn.	South Carolina.
2	33	<i>cuneiformis</i> Say.	Georgia.
2	34	<i>oblongata</i> Say.	Georgia.
2	35	<i>truncata</i> Say.	Staten Island.
2	36	<i>Gastrochœna modiolina</i> Lam.	South Carolina.
2	37	<i>Solen ensis</i> Linn.	Staten Island.
2	38	<i>viridis</i> Say.	Rhode Island.
2	39	<i>siliqua</i> Linn.	New York bay.
2	40	<i>Solecurtus caribæus</i> Blain.	Sandy Hook, N. Y.
2	41	<i>fragilis</i> Conrad.	New Bedford.
2	42	<i>centralis</i> Conrad.	Georgia.
2	43	<i>Machœra nitida</i> Gould.	Stomach of codfish.
3	44	<i>costata</i> Gould.	Massachusetts bay.
3	45	<i>Panopœa arctica</i> Gould.	Stomach of codfish.
3	46	<i>Glycimeris siliqua</i> Lam.	Provincetown, Mass.
3	47	<i>Mya arenaria</i> Linn.	Staten Island.
3	48	<i>truncata</i> Linn.	Massachusetts bay.
3	49	<i>Anatina papyracea</i> Say.	Rhode Island.
3	50	<i>Cochlodesma Leana</i> Gould.	Staten Island.
3	51	<i>Thracia Conradi</i> Couth.	Massachusetts bay.
3		<i>truncata</i> Mighels.	Maine.
3	52	<i>Osteodesma hyalina</i> Couth.	Staten Island.
3	53	<i>Lutraria canaliculata</i> Say.	South Carolina.
3	54	<i>lineata</i> Say.	South Carolina.
3	55	<i>Cumingia tellinoides</i> Conrad.	New Bedford.
3	56	<i>Macra lateralis</i> Say.	New York bay.
3	57	<i>similis</i> Say.	South Carolina.
3	58	<i>solidissima</i> Chemn.	Staten Island.
3	59	<i>fragilis</i> Chemn.	South Carolina.
3	60	<i>nucleus</i> Conrad.	New Jersey.
3	61	<i>ovalis</i> Gould.	Massachusetts bay.
3	62	<i>Mesodesma arctata</i> Gould.	Massachusetts bay.
3	63	<i>Jauresii</i> De John.	Massachusetts bay.
3	64	<i>Montacuta bidentata</i> Mont.	New Bedford.
3	65	<i>Kellia rubra</i> Turton.	New Bedford.
4	66	<i>Gnathodon cuneata</i> Gray.	New Orleans.
4	67	<i>flexuosa</i> Conrad.	New Orleans.
4	68	<i>Solemya borealis</i> Totten.	Rhode Island.
4	69	<i>velum</i> Say.	Long Island.
4	70	<i>Amphidesma flexuosa</i> Lam.	Massachusetts.
4	71	<i>orbiculata</i> Say.	Georgia.
4	72	<i>equalis</i> Say.	Georgia.
4	73	<i>punctata</i> Say.	Georgia.
4	74	<i>radiata</i> Say.	Georgia.
4	75	<i>lepida</i> Say.	South Carolina.

Page.	No.	Name.	Locality.
4	76	<i>Amphidesma transversa</i> Say.	Georgia.
4	77	<i>Corbula contracta</i> Say.	New Bedford.
4	78	<i>Pandora trilineata</i> Say.	Staten Island.
4	79	<i>Saxacava rugosa</i> Lam.	Massachusetts bay.
4	80	<i>distorta</i> Say.	Massachusetts bay.
4	81	<i>rhomboides</i> Desh.	Massachusetts bay.
4	82	<i>Petricola pholadiformis</i> Lam.	Staten Island.
4	83	<i>dactylus</i> Say.	New Bedford.
4	84	<i>Sanguinolaria fusca</i> Conrad.	Long Island.
4	85	<i>rugosa</i> Lam.	Florida.
4	86	<i>lusoria</i> Conrad.	New Jersey.
4	87	<i>sordida</i> Gould.	Massachusetts bay.
4	88	<i>Tellina alternata</i> Say.	South Carolina.
4	89	<i>polita</i> Say.	South Carolina.
4	90	<i>iris</i> Say.	South Carolina.
4	91	<i>flexuosa</i> Say.	South Carolina.
4	92	<i>tenera</i> Say.	New Jersey.
4	93	<i>interstriata</i> Say.	Florida.
5	94	<i>lateralis</i> Say.	New Jersey.
5	95	<i>decora</i> Say.	Florida.
5	96	<i>mera</i> Say.	Massachusetts bay.
5	97	<i>tenta</i> Say.	Massachusetts bay.
5	98	<i>calcaria</i> Say.	Massachusetts bay.
5	99	<i>nasuta</i> Conrad.	Columbia river.
5	100	<i>versicolor</i> Cozzens.	New York bay.
5	101	<i>Lucina divaricata</i> Lam.	Rhode Island.
5	102	<i>contracta</i> Say.	Massachusetts bay.
5	103	<i>radula</i> Lam.	Massachusetts bay.
5	104	<i>flexuosa</i> Gould.	Massachusetts bay.
5	105	<i>Donax variabilis</i> Say.	Georgia.
5	106	<i>fossor</i> Say.	Long Island.
5	107	<i>Capsa lævigata</i> Lam.	Florida.
5	108	<i>Astarte castanea</i> Say.	Staten Island.
5	109	<i>lactea</i> Br. & Sowb.	Stomach of fish.
5	110	<i>quadrans</i> Gould.	Stomach of fish.
5	111	<i>sulcata</i> Fleming.	Coast of Maine.
5	112	<i>undata</i> Gould.	Coast of Maine.
5	113	<i>Portlandica</i> Mighels.	Coast of Maine.
5	114	<i>Cyclas similis</i> Say.	Ohio.
5	115	<i>dubia</i> Say.	Ohio.
5	116	<i>rhomboidea</i> Say.	Lake Champlain.
5	117	<i>partumeia</i> Say.	Ohio.
5	118	<i>staminea</i> Conrad.	Alabama.
5	119	<i>edentula</i> Say.	Canandaigua, N. Y.
5	120	<i>transversa</i> Say.	Kentucky.

Page.	No.	Name.	Locality.
5	121	<i>Cyclas elegans</i> Adams.	Vermont.
5	122	nitida Mighels.	Maine?
5	123	minor Adams.	Maine?
5	124	altilis Anthony.	Ohio.
6	125	<i>Cyrena Carolinensis</i> Say.	South Carolina.
6	126	<i>Cyprina Islandica</i> Lam.	Rhode Island.
6	127	<i>Cytherea concentrica</i> Lam.	Virginia.
6	128	gigantea Lam.	Florida.
6	129	florida Lam.	Florida.
6	130	occulta Say.	Southern States.
6	131	convexa Say.	New York.
6	132	<i>Venus elevata</i> Say.	South Carolina.
6	133	exalbida Chemn.	Apalachicola bay.
6	134	fluctuosa Gould.	Massachusetts bay.
6	135	gemma Totten.	Long Island.
6	136	inequalis Say.	Virginia.
6	137	Mortoni Conrad.	Virginia.
6	138	mercenaria Linn.	New York.
6	139	notata Say.	New York.
6	140	præparca Say.	Cape Cod.
6	141	<i>Cardium fasciatum</i> Mont.	South Carolina.
6	142	Grœnlandicum Gmelin.	Maine.
6	143	Islandicum Gmelin.	Maine.
6	144	Mortoni Conrad.	Rhode Island.
6	145	pinnulatum Conrad.	Massachusetts bay.
6	146	muricatum Linn.	South Carolina.
6	147	ventricosum Brug.	South Carolina.
6	148	<i>Cardita borealis</i> Conrad.	Massachusetts bay.
6	149	incrassata Sowerby.	Florida.
6	150	tridentata Say.	South Carolina.
6	151	<i>Arca ponderosa</i> Say.	Florida.
6	152	pexata Say.	New York.
6	153	incongrua Say.	Georgia.
6	154	transversa Say.	New York.
7	155	zebra Say.	Florida.
7	156	<i>Nucula Jacksonii</i> Gould.	Maine.
7	157	limatula Say.	New York bay.
7	158	minuta Gould.	Nahant.
7	159	myalis Couth.	Massachusetts bay.
7	160	navicularis Couth.	Plymouth, Mass.
7	161	proxima Say.	New Bedford.
7	162	sapotilla Gould.	Cape Cod.
7	163	tenuis Gould.	Massachusetts bay.
7	164	thraciæformis Storer.	Stomach of fish.
7	165	delphinodonta Mighels.	Maine.

Page	No.	Name.	Locality.
7	166	Nucula Cascoensis <i>Mighels.</i>	Maine.
7	167	Unio abruptus <i>Say.</i>	Ohio.
7	168	<i>acutissimus</i> <i>Lea.</i>	Alabama.
7	169	<i>aheneus</i> <i>Lea.</i>	Black creek, Florida.
7	170	<i>alatus</i> <i>Say.</i>	Lake Champlain.
7	171	<i>altilis</i> <i>Conrad.</i>	Alabama.
7	172	<i>amœnus</i> <i>Lea.</i>	Tennessee.
7	173	<i>amygdalus</i> <i>Lea.</i>	Lake George, Florida.
7	174	<i>anodontoides</i> <i>Lea.</i>	Ohio.
7	175	<i>angustatus</i> <i>Lea.</i>	South Carolina.
7	176	<i>apiculatus</i> <i>Say.</i>	Louisiana.
7	177	<i>arctatus</i> <i>Conrad.</i>	Alabama.
7	178	<i>arctior</i> <i>Lea.</i>	Ohio.
7	179	<i>arcus</i> <i>Conrad.</i>	Alabama.
7	180	<i>arcæformis</i> <i>Lea.</i>	Tennessee.
7	181	<i>argenteus</i> <i>Lea.</i>	Tennessee.
7	182	<i>asper</i> <i>Lea.</i>	Alabama.
7	183	<i>asperimus</i> <i>Lea.</i>	Ohio.
7	184	<i>ater</i> <i>Lea.</i>	Alabama.
7	185	<i>atro-marginatus</i> <i>Lea.</i>	Georgia.
7	186	<i>Barnesianus</i> <i>Lea.</i>	Tennessee.
7	187	<i>Biglyensis</i> <i>Lea.</i>	Tennessee.
7	188	<i>Blandingianus</i> <i>Lea.</i>	Florida.
8	189	<i>biangularis</i> <i>Lea.</i>	Tennessee.
8	190	<i>Boydianus</i> <i>Lea.</i>	New York.
8	191	<i>Boykinianus</i> <i>Lea.</i>	Georgia.
8	192	<i>brevidens</i> <i>Lea.</i>	Ohio.
8	193	<i>Brumbyanus</i> <i>Lea.</i>	Alabama.
8	194	<i>Buckleyi</i> <i>Lea.</i>	Lakes George & Monroe, Fla.
8	195	<i>Buddianus</i> <i>Lea.</i>	Lakes George & Monroe, Fla.
8	196	<i>callosus</i> <i>Lea.</i>	Ohio.
8	197	<i>camelus</i> <i>Lea.</i>	Ohio.
8	198	<i>camptodon</i> <i>Say.</i>	Louisiana.
8	199	<i>capsæformis</i> <i>Lea.</i>	Western States.
8	200	<i>cariosus</i> <i>Say.</i>	Eastern rivers.
8	201	<i>catillus</i> <i>Conrad.</i>	Ohio.
8	202	<i>circulus</i> <i>Lea.</i>	Ohio.
8	203	<i>Cincinnatiensis</i> <i>Lea.</i>	Ohio.
8	204	<i>Clairbornensis</i> <i>Lea.</i>	Alabama.
8	205	<i>clavus</i> <i>Lam.</i>	Ohio.
8	206	<i>coccineus</i> <i>Hild.</i>	Ohio.
8	207	<i>cœlatus</i> <i>Conrad.</i>	Tennessee.
8	208	<i>collinus</i> <i>Conrad.</i>	Virginia.
8	209	<i>Cooperianus</i> <i>Lea.</i>	Ohio.
8	210	<i>compressus</i> <i>Lea.</i>	Western riv's & lakes.

Page.	No.	Name.	Locality.
8	211	Unio complanatus <i>Lam.</i>	Maine to Florida.
8	212	Congaræus <i>Lea.</i>	Congaree river, S. C.
8	213	confertus <i>Lea.</i>	South Carolina.
8	214	Conradicus <i>Lea.</i>	Western rivers.
8	215	cornutus <i>Barnes.</i>	Ohio.
8	216	cor <i>Conrad.</i>	Alabama.
8	217	crassidens <i>Lam.</i>	Western rivers.
8	218	crocatus <i>Lea.</i>	Savannah river.
8	219	crassus <i>Say.</i>	Western rivers.
8	220	creperus <i>Lea.</i>	Tennessee.
8	221	cuprinus <i>Lea.</i>	Tennessee.
8	222	Cumberlandicus <i>Lea.</i>	Cumberland riv., Ten.
8	223	cuneolus <i>Lea.</i>	Tennessee.
9	224	cylindricus <i>Say.</i>	Western rivers.
9	225	dactylus <i>Lea.</i>	Tennessee.
9	226	decisus <i>Lea.</i>	Alabama.
9	227	declivis <i>Say.</i>	Alabama.
9	228	dehiscens <i>Say.</i>	Ohio.
9	229	dolabelloides <i>Lea.</i>	Tennessee.
9	230	dolabræformis <i>Lea.</i>	Georgia.
9	231	Dorfeullianus <i>Lea.</i>	Ohio.
9	232	dromas <i>Lea.</i>	Tennessee and Ala.
9	233	Duttonianus <i>Lea.</i>	Savannah river.
9	234	Æsopus <i>Green.</i>	Western rivers.
9	235	elegans <i>Lea.</i>	Ohio river.
9	236	ellipsis <i>Lea.</i>	Ohio river.
9	237	exiguus <i>Lea.</i>	Georgia.
9	238	Edgarianus <i>Lea.</i>	Tennessee.
9	239	ellipsiformis <i>Conrad.</i>	Michigan.
9	240	ebenus <i>Lea.</i>	Ohio.
9	241	fabilis <i>Lea.</i>	Ohio.
9	242	Fisherianus <i>Lea.</i>	Maryland.
9	243	foliatus <i>Hild.</i>	Ohio.
9	244	fortuus <i>Lea.</i>	Tennessee.
9	245	folliculatus <i>Lea.</i>	Savannah river.
9	246	fragosus <i>Conrad.</i>	Scioto river Ohio.
9	247	furvus <i>Conrad.</i>	Alabama.
9	248	fuscatus <i>Lea.</i>	Black creek, Florida.
9	249	fulvus <i>Lea.</i>	South Carolina.
9	250	Geddingianus <i>Lea.</i>	South Carolina.
9	251	Georgianus <i>Lea.</i>	Georgia.
9	252	gibber <i>Lea.</i>	Carry Fork river, Tenn.
9	253	gibbosus <i>Barnes.</i>	Western rivers.
9	254	glaber <i>Lea.</i>	Tennessee.
9	255	globosus <i>Lea.</i>	Western rivers.

Page.	No.	Name.	Locality.
9	256	Unio glans <i>Lea.</i>	Ohio.
9	257	gracilis <i>Barnes.</i>	Ohio.
9	258	Greeni <i>Conrad.</i>	Black Warrior river.
9	259	Griffithianus <i>Lea.</i>	South Carolina.
10	260	graniferus <i>Lea.</i>	Ohio.
10	261	Haysianus <i>Lea.</i>	Tennessee.
10	262	heterodon <i>Lea.</i>	Pennsylvania.
10	263	Hembeli <i>Conrad.</i>	Southern rivers.
10	264	Hildrethianus <i>Lea.</i>	Western rivers.
10	265	Holstonensis <i>Lea.</i>	Tennessee.
10	266	Hopetonensis <i>Lea.</i>	Hopeton river, Ga.
10	267	inflatus <i>Lea.</i>	Southwestern rivers.
10	268	irroratus <i>Lea.</i>	Ohio.
10	269	incrasatus <i>Lea.</i>	Georgia.
10	270	interruptus <i>Lea.</i>	Harpeth river, Tenn.
10	271	infucatus <i>Conrad.</i>	Alabama.
10	272	Jayensis <i>Lea.</i>	Florida.
10	273	jejunus <i>Lea.</i>	North Carolina.
10	274	Kirtlandianus <i>Lea.</i>	Ohio.
10	275	Kathrinæ <i>Lea.</i>	Lake Superior.
10	276	levissimus <i>Lea.</i>	Western rivers.
10	277	lachrymosus <i>Lea.</i>	Ohio.
10	278	Leontianus <i>Lea.</i>	Conochee river, Ga.
10	279	Lesueurianus <i>Lea.</i>	Tennessee.
10	280	lenoir <i>Lea.</i>	Tennessee.
10	281	lineatus <i>Lea.</i>	Georgia.
10	282	luteolus <i>Lam.</i>	Western rivers.
10	283	lienosus <i>Conrad.</i>	Alabama.
10	284	lens <i>Lea.</i>	Western rivers.
10	285	lanceolatus <i>Lea.</i>	North Carolina.
10	286	lugubris <i>Lea.</i>	Georgia.
10	287	multiplicatus <i>Lea.</i>	Western rivers.
10	288	metanever <i>Lea.</i>	Ohio.
10	289	minor <i>Lea.</i>	Lakes George & Monroe, Fla.
10	290	Monroensis <i>Lea.</i>	Lake Monroe, Florida.
10	291	monodontus <i>Say.</i>	Ohio.
10	292	modioliformis <i>Lea.</i>	South Carolina.
10	293	multiradiatus <i>Lea.</i>	Ohio.
10	294	Menkianus <i>Lea.</i>	Harpeth river, Tenn.
11	295	Muhlfeldianus <i>Lea.</i>	Cumberland river.
11	296	maculatus <i>Conrad.</i>	Alabama.
11	297	Masoni <i>Conrad.</i>	Savannah.
11	298	nasutus <i>Say.</i>	East'n & West'n rivs.
11	299	Nashvillianus <i>Lea.</i>	Tennessee.
11	300	neglectus <i>Lea.</i>	North Alabama.

Page.	No.	Name.	Locality.
11	301	Unio nicestus <i>Lea.</i>	Tennessee.
11	302	nitens <i>Lea.</i>	Tennessee.
11	303	Novi-Eborachi <i>Lea.</i>	Oak Orchard cr., N. Y.
11	304	notatus <i>Lea.</i>	Cumberland river.
11	305	obscurus <i>Lea.</i>	Tennessee.
11	306	obesus <i>Lea.</i>	Yorktown, Va.
11	307	obliquus <i>Lam.</i>	Western rivers.
11	308	occultus <i>Lea.</i>	Black creek, Florida.
11	309	ochraceus <i>Say.</i>	N. J. & Connecticut.
11	310	ovatus <i>Say.</i>	Western rivers.
11	311	oviformis <i>Conrad.</i>	Alabama.
11	312	patulus <i>Lea.</i>	Ohio.
11	313	paulus <i>Lea.</i>	Georgia.
11	314	parvus <i>Barnes.</i>	Ohio.
11	315	perplexus <i>Lea.</i>	Ohio.
11	316	penitus <i>Conrad.</i>	Alabama.
11	317	perdix <i>Lea.</i>	Ohio & Tennessee.
11	318	perovatus <i>Conrad.</i>	Alabama.
11	319	perovalis <i>Conrad.</i>	Alabama.
11	320	personatus <i>Say.</i>	Ohio.
11	321	phaseolus <i>Hild.</i>	Ohio.
11	322	Phillipsii <i>Conrad.</i>	Wabash.
11	323	plicatus <i>Say.</i>	Ohio.
11	324	plenus <i>Lea.</i>	Ohio.
11	325	pictus <i>Lea.</i>	Tennessee.
11	326	pilaris <i>Lea.</i>	Tennessee.
11	327	pileus <i>Lea.</i>	Ohio.
11	328	pyramidatus <i>Lea.</i>	Ohio.
11	329	pustulatus <i>Lea.</i>	Ohio.
11	330	pustulosus <i>Lea.</i>	Ohio.
12	331	purpuratus <i>Lam.</i>	Western rivers.
12	332	pumilis <i>Lea.</i>	Black river, N. C.
12	333	pusillus <i>Lea.</i>	Georgia.
12	334	productus <i>Conrad.</i>	Savannah.
12	335	pulcher <i>Lea.</i>	Tennessee.
12	336	rubiginosus <i>Lea.</i>	Western rivers.
12	337	radiatus <i>Lea.</i>	Lake Champlain.
12	338	Rangianus <i>Lea.</i>	Ohio.
12	339	Ravenelianus <i>Lea.</i>	South Carolina.
12	340	rectus <i>Lam.</i>	South Carolina.
12	341	regularis <i>Lea.</i>	Tennessee.
12	342	retusus <i>Lea.</i>	Western rivers.
12	343	Roanokensis <i>Lea.</i>	North Carolina.
12	344	rotundatus <i>Linn.</i>	Louisiana.
12	345	rubellus <i>Conrad.</i>	Alabama.

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12	346	Unio Sayii Tappan.	Wisconsin.
12	347	Schoolcraftensis Lea.	Fox river, Green bay.
12	348	securis Lea.	Ohio.
12	349	Shepardianus Lea.	Georgia.
12	350	silliquoides Barnes.	Ohio.
12	351	simus Lea.	Cumberland river.
12	352	Sowerbianus Lea.	Tenn. & Alabama.
12	353	solidus Lea.	Ohio.
12	354	Sloatianus Lea.	Georgia.
12	355	spinosus Lea.	Alabama & Georgia.
12	356	splendidus Lea.	Altamaha river.
12	357	sparsus Lea.	Tennessee.
12	358	stapes Lea.	Ohio & Alabama.
12	359	Stonensis Lea.	Tennessee.
12	360	strigosus Lea.	Georgia.
12	361	striatus Lea.	Georgia.
12	362	stramineus Conrad.	Alabama.
12	363	subrotundus Lea.	Ohio.
12	364	subplanus Conrad.	Virginia.
12	365	subangulatus Lea.	Georgia.
13	366	subovatus Lea.	Ohio river.
13	367	subtentus Say.	Southern rivers.
13	368	sulcatus Lea.	Western rivers.
13	369	trapezoides Lea.	Lake St. Joseph, La.
13	370	Taitianus Lea.	Tennessee.
13	371	Tappanianus Lea.	Troy, N. Y.
13	372	tetralasmus Say.	Louisiana.
13	373	tenuissimus Lea.	Western rivers.
13	374	tenerus Raf.	Virginia.
13	375	Tennesseeensis Lea.	Tennessee.
13	376	tener Lea.	Tennessee.
13	377	tortivus Lea.	Georgia.
13	378	tœniatus Conrad.	Flint river, Ga.
13	379	Troostensis Lea.	Tennessee.
13	380	trigonus Lea.	Ohio.
13	381	triangularis Barnes.	Western rivers.
13	382	trosculus Lea.	Lake Monroe, Fla.
13	383	turgidus Lea.	Bayou Teche, La.
13	384	tuberculatus Barnes.	Western rivers.
13	385	undulatus Barnes.	Western rivers.
13	386	varicosus Lea.	Ohio.
13	387	vanuxemensis Lea.	Cumberland river.
13	388	Vaughanianus Lea.	South Carolina.
13	389	ventricosus Barnes.	Lake Champlain.
13	390	verrucosus Barnes.	Ohio.

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13	391	<i>Unio venustus</i> Lea.	Missouri.
13	392	<i>vibex</i> Conrad.	Alabama.
13	393	<i>Watereensis</i> Lea.	South Carolina.
13	394	<i>Zeiglerianus</i> Lea.	Cumberland riv., Tenn.
13	395	<i>Alasmodonta arcula</i> Lea.	Altamaha river.
13	396	<i>cuneyana</i> Lea.	Tennessee.
13	397	<i>calceola</i> Lea.	Ohio.
13	398	<i>complanata</i> Lea.	Western rivers.
13	399	<i>confragosa</i> Lea.	Western rivers.
14	400	<i>deltoidea</i> Lea.	Western rivers.
14	401	<i>edentula</i> Say.	Wabash.
14	402	<i>fabula</i> Lea.	Cumberland river.
14	403	<i>Holstonia</i> Lea.	Holstein river.
14	404	<i>marginata</i> Lea.	East'n & West'n rivers.
14	405	<i>margaritifera</i> Lam.	Eastern rivers.
14	406	<i>radiata</i> Lea.	Alabama.
14	407	<i>rugosa</i> Lea.	Western rivers.
14	408	<i>Raveneliana</i> Lea.	North Carolina.
14	409	<i>undulata</i> Lea.	New Jersey
14	410	<i>Anodonta argentea</i> Lea.	Tennessee.
14	411	<i>Benedictensis</i> Lea.	Lake Champlain.
14	412	<i>carinifera</i> Conrad.	Kentucky.
14	413	<i>Couperiana</i> Lea.	Georgia.
14	414	<i>decora</i> Lea.	Ohio canals.
14	415	<i>declivis</i> Conrad.	Kentucky.
14	416	<i>edentula</i> Lea.	Western rivers.
14	417	<i>fragilis</i> Lam.	Western rivers.
14	418	<i>ferruginea</i> Lea.	Tennessee.
14	419	<i>Footiana</i> Lea.	Fort Winnebago.
14	420	<i>Ferussaciana</i> Lea.	Ohio river.
14	421	<i>fluviatilis</i> Lea.	Eastern rivers.
14	422	<i>grandis</i> Say.	Southern rivers.
14	423	<i>gibbosa</i> Lea.	Georgia.
14	424	<i>gigantea</i> Lea.	Mississippi river.
14	425	<i>glauca</i> Lam.	Western rivers.
14	426	<i>Harpethiana</i> Lea.	Harpeth river, Tenn.
14	427	<i>implicata</i> Say.	Plymouth, Mass.
14	428	<i>incerta</i> Lea.	Ohio.
14	429	<i>lugubris</i> Say.	Cumberland river.
14	430	<i>Marryattiana</i> Lea.	Fort Winnebago.
14	431	<i>Newtoniensi</i> Lea.	Newton creek, N. J.
14	432	<i>Nuttalliana</i> Lea.	Oregon Territory.
14	433	<i>Oregonensis</i> Lea.	Oregon Territory.
14	434	<i>ovata</i> Lea.	Ohio.
15	435	<i>parvonia</i> Lea.	Ohio.

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15	436	Anodonta plana <i>Lea.</i>	Ohio.
15	437	salmonia <i>Lea.</i>	Ohio.
15	438	Stewartiana <i>Lea.</i>	Western rivers.
15	439	subvexa <i>Conrad.</i>	Alabama.
15	440	suborbiculata <i>Say.</i>	Illinois.
15	441	subcylindracea <i>Lea.</i>	Orleans Co., N. Y.
15	442	undulata <i>Say.</i>	Ohio.
15	443	virgata <i>Conrad.</i>	Ohio.
15	444	Wahlamatensis <i>Lea.</i>	Oregon.
15	445	Wardiana <i>Lea.</i>	Ohio.
15	446	Buchanensis <i>Lea.</i>	Buck creek, Ohio.
15	447	angulata <i>Lea.</i>	Lewis river.
15	448	Chama arcinella <i>Linn.</i>	Florida.
15	449	Lazarus <i>Lam.</i>	Key West, Fla.
15	450	Modiola Americana <i>Leach.</i>	Southern States.
15	451	castanea <i>Say</i>	Southern States.
15	452	discors <i>Linn.</i>	Massachusetts bay.
15	453	discrepans <i>Mont.</i>	Chelsea beach.
15	454	glandula <i>Totten.</i>	Provincetown, Mass.
15	455	modiolus <i>Turton.</i>	Massachusetts bay.
15	456	nexa <i>Gould.</i>	Provincetown, Mass.
15	457	plicatula <i>Lam.</i>	Long Island.
15	458	pectinula <i>Gould.</i>	Massachusetts bay.
15	459	Mytilus cubitus <i>Say.</i>	Georgia.
15	460	edulis <i>Linn.</i>	New York bay.
15	461	hamatus <i>Say.</i>	Southern States.
15	462	incurvatus <i>Penn.</i>	Massachusetts bay.
15	463	lateralis <i>Say.</i>	Southern States.
15	464	leucophœatus <i>Conrad.</i>	Southern States.
15	465	pellucidus <i>Penn.</i>	New York bay.
15	466	ungulatus <i>Linn.</i>	Massachusetts bay.
16	467	Pinna seminuda <i>Lam.</i>	South Carolina.
16	468	muricata <i>Linn.</i>	St. Simou's island, Ga.
16	469	rudis <i>Lam.</i>	South Carolina.
16	470	Avicula Atlantica <i>Lam.</i>	South Carolina.
16	471	Lima glacialis <i>Lam.</i>	Florida.
16	472	squamosa <i>Lam.</i>	Florida.
16	473	Pecten concentricus <i>Say.</i>	New York.
16	474	Islandicus <i>Chem.</i>	Massachusetts bay.
16	475	Magellanicus <i>Lam.</i>	Maine.
16	476	ornatus <i>Lam.</i>	Florida.
16	477	nodosus <i>Lam.</i>	Florida.
16	478	purpuratus <i>Lam.</i>	Atlantic coast.
16	479	tenuicostatus <i>Mighels.</i>	Maine.
16	480	Plicatula rimosa <i>Lam.</i>	Florida.

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16	481	<i>Ostrea borealis</i> Lam.	New York.
16	482	<i>equestris</i> Say.	Florida.
16	483	<i>costata</i> De Kay.	New York.
16	484	<i>semicylindrica</i> Say.	Florida.
16	485	<i>Virginiana</i> Lister.	New York.
16	486	<i>Anomia ephippium</i> Linn.	New York bay.
16	487	<i>undulata</i> Linn.	Massachusetts bay.
16	488	<i>aculeata</i> Gmelin.	Massachusetts bay.
16	489	<i>squamula</i> Linn.	Massachusetts bay.
16	490	<i>electrica</i> Linn.	Massachusetts bay.
16	491	<i>patellaris</i> Lam.	New York bay.
16	492	<i>Terebratula psittacea</i> Lam.	Coast of Maine.
16	493	<i>caput serpentis</i> Gould.	Massachusetts bay.
16	494	<i>thalasina</i> Gould.	Massachusetts bay.
17	495	<i>Chiton albus</i> Mont.	Massachusetts bay.
17	496	<i>apiculatus</i> Say.	Gardiner's island.
17	497	<i>Emersonii</i> Couth.	Massachusetts bay.
17	498	<i>fulminatus</i> Couth.	Cohasset.
17	499	<i>marginatus</i> Gmelin.	Phillips' beach.
17	500	<i>pectinatus</i> Gould.	Phillips' beach.
17	501	<i>ruber</i> Lowe.	Phillips' beach.
17	502	<i>mendicarius</i> Mighels.	Maine.
17	503	<i>Patella candida</i> Couth.	Massachusetts bay.
17	504	<i>Oregana</i> Nuttall.	Columbia river.
17	505	<i>Patelloida testudinalis</i> Couth.	Massachusetts bay.
17	506	<i>alveus</i> Conrad.	Massachusetts bay.
17	507	<i>Siphonaria alternata</i> Say.	Florida.
17	508	<i>Cemoria Noachina</i> Lam.	Massachusetts bay.
17	509	<i>princeps</i> Mighels.	Maine.
17	510	<i>Calyptroea striata</i> Say.	New Jersey.
17	511	<i>Crepidula fornicata</i> Lam.	New York bay.
17	512	<i>unguiformis</i> Lam.	New York bay.
17	513	<i>intorta</i> Say.	Southern States.
17	514	<i>convexa</i> Say.	Atlantic coast.
17	515	<i>depressa</i> Say.	Southern States.
17	516	<i>glauca</i> Say.	Chelsea beach.
17	517	<i>plana</i> Say.	New York bay.
17	518	<i>Ancylus rivularis</i> Say.	Ohio and New York.
17	519	var. <i>Brunneus</i> Hald.	James river, Va.
17	520	<i>filosus</i> Conrad.	Alabama.
17	521	<i>tardus</i> Say.	Vermont.
17	522	<i>parallelus</i> Hald.	New England.
17	523	<i>fuscus</i> Adams.	Andover, Mass.
18	524	<i>crassus</i> Hald.	Oregon.
18	525	<i>diaphanus</i> Hald.	Ohio.

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18	526	<i>Ancylus depressus</i> Hald.	Holstein river, Va.
18	527	<i>obscurus</i> Hald.	Nolachucky riv., Tenn.
18	528	<i>Bullina canaliculata</i> Say.	St. Simon's island, Ga.
18	529	<i>Bulla debilis</i> Gould.	Massachusetts bay.
18	530	<i>Gouldii</i> Couth.	Massachusetts bay.
18	531	<i>hiemalis</i> Couth.	Massachusetts bay.
18	532	<i>insculpta</i> Totten.	New York bay.
18	533	<i>lineolata</i> Couth.	Massachusetts bay.
18	534	<i>obstricta</i> Gould.	New York bay.
18	535	<i>oryza</i> Totten.	Newport river.
18	536	<i>triticea</i> Couth.	Massachusetts bay.
18	537	<i>pertenuis</i> Mighels.	Maine.
18	538	<i>Vitrina pellucida</i> Drap.	Iowa Territory.
18	539	<i>Helix albolabris</i> Say.	United States.
18	540	<i>alternata</i> Say.	New York to Ohio.
18	541	<i>appressa</i> Say.	Western States.
18	542	<i>arborea</i> Say.	Mass. to Ohio.
18	543	<i>avara</i> Ferussac.	Florida.
18	544	<i>auriculata</i> Lam.	Florida.
18	545	<i>clausa</i> Say.	Western States
18	546	<i>cellaria</i> Müll.	Massachusetts.
18	547	<i>concava</i> Say.	Ohio.
18	548	<i>Columbiana</i> Lea.	Oregon Territory.
18	549	<i>Cumberlandicus</i> Lea.	Tennessee.
18	550	<i>dentifera</i> Binney.	Vermont.
18	551	<i>dealbata</i> Say.	Missouri.
18	552	<i>demissa</i> Say.	Alabama.
18	553	<i>diodonta</i> Say.	Ohio.
18	554	<i>Dorfeuilliana</i> Lea.	Ohio.
18	555	<i>elevata</i> Say.	Western States.
19	556	<i>electrina</i> Gould.	Cambridge, Mass
19	557	<i>Edgarina</i> Lea.	Tennessee.
19	558	<i>egena</i> Say.	Pennsylvania.
19	559	<i>fatigata</i> Binney.	Vermont.
19	560	<i>fraterna</i> Say.	East'n & West'n States.
19	561	<i>fuliginosa</i> Griff.	Ohio.
19	562	<i>glaphyra</i> Say.	Ohio.
19	563	<i>gularis</i> Say.	Ohio.
19	564	<i>hortensis</i> Müll	Portsmouth, N. H.
19	565	<i>harpa</i> Say.	Southwestern States.
19	566	<i>hirsuta</i> Say.	Staten Island.
19	567	<i>inornata</i> Say.	Pennsylvania.
19	568	<i>inflecta</i> Say.	Western States.
19	569	<i>indentata</i> Say.	Ohio.
19	570	<i>interna</i> Say.	Kentucky.

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19	571	<i>Helix immitissima</i> Lea.	Cincinnati.
19	572	<i>irrorata</i> Say.	Pennsylvania.
19	573	<i>labyrinthica</i> Say.	Massachusetts.
19	574	<i>ligera</i> Say.	Ohio.
19	575	<i>lineata</i> Say.	Ohio & Mass.
19	576	<i>incubrata</i> Say.	Alabama.
19	577	<i>Mobiliana</i> Lea.	Mobile.
19	578	<i>monodon</i> Binney.	Western States.
19	579	<i>minuta</i> Say.	Mass. to Missouri.
19	580	<i>multilineata</i> Say.	Southwestern States.
19	581	<i>Michelliana</i> Lea.	Ohio.
19	582	<i>Nuttalliana</i> Lea.	Oregon.
19	583	<i>obstricta</i> Say.	Ohio.
19	584	<i>pallida</i> Say.	Ohio.
19	585	<i>Pennsylvanica</i> Green.	Pennsylvania.
19	586	<i>perspectiva</i> Say.	New York & Ohio.
19	587	<i>porcina</i> Say.	Iowa.
19	588	<i>profunda</i> Say.	Ohio.
19	589	<i>plicata</i> Say.	Alabama.
19	590	<i>septemvolva</i> Ferussac.	Georgia.
19	591	<i>solitaria</i> Say.	Ohio.
20	592	<i>subplana</i> Binney.	Tennessee.
20	593	<i>suppressa</i> Say.	Ohio.
20	594	<i>thyroidus</i> Say.	Eastern States.
20	595	<i>Townsendiana</i> Lea.	Oregon.
20	596	<i>tridentata</i> Say.	Mass. to Missouri.
20	597	<i>Troostiana</i> Lea.	Tennessee.
20	598	<i>tenuistriata</i> Lea.	Cincinnati.
20	599	<i>Tennesseensis</i> Lea.	Tennessee.
20	600	<i>Wardiana</i> Lea.	Ohio.
20	601	<i>Vancouverensis</i> Lea.	Oregon.
20	602	<i>zaleta</i> Say.	Western States.
20	603	<i>Carocolla</i> Edgarina Lea.	Tennessee.
20	604	<i>Cumberlandicus</i> Lea.	Tennessee.
20	605	<i>spinosa</i> Lea.	Alabama.
20	606	<i>Helicina orbiculata</i> Say.	Ohio & Florida.
20	607	<i>occulta</i> Say.	Indiana.
20	608	<i>Pupa armifera</i> Say.	Western States.
20	609	<i>badia</i> Adams.	Crown Point, N. Y.
20	610	<i>carinata</i> Gould.	Maryland.
20	611	<i>contracta</i> Say.	Virginia.
20	612	<i>corticaria</i> Say.	Ohio.
20	613	<i>curvidens</i> Gould.	Massachusetts.
20	614	<i>exigua</i> Say.	Pennsylvania.
20	615	<i>fallax</i> Say.	Massachusetts.

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20	616	Pupa ovata Say.	Pennsylvania.
20	617	<i>placida</i> Say.	Massachusetts.
20	618	<i>millium</i> Gould.	Massachusetts.
20	619	<i>simplex</i> Gould.	Massachusetts.
20	620	<i>rupicola</i> Say.	Florida.
20	621	<i>procera</i> Gould.	Baltimore.
20	622	<i>Tappanianus</i> Ward.	Massachusetts.
20	623	<i>modesta</i> Say.	Iowa.
20	624	<i>pentodon</i> Say.	Ohio.
21	625	Bulimus lubricus Drap.	Massachusetts.
21	626	<i>dealbatus</i> Say.	Western prairies.
21	627	<i>mutilatus</i> Say.	South Carolina.
21	628	<i>multilineatus</i> Say.	Florida.
21	629	<i>radiatus</i> Lam.	Western prairies.
21	630	Achatina striata Lam.	Georgia.
21	631	<i>solida</i> Say.	Florida.
21	632	<i>virginea</i> Lam.	Florida.
21	633	Succinea avara Say.	Ohio to New York.
21	634	<i>aurea</i> Lea.	Ohio.
21	635	<i>aperta</i> Lea.	Oregon.
21	636	<i>campestris</i> Say.	Southern States.
21	637	<i>Nuttalliana</i> Lea.	Oregon.
21	638	<i>ovalis</i> Say.	East'n & West'n States.
21	639	<i>obliqua</i> Say.	Penn. to Ohio.
21	640	<i>Oregonensis</i> Lea.	Oregon.
21	641	<i>inflata</i> Lea.	South Carolina.
21	642	<i>retusa</i> Say.	Ohio.
21	643	<i>Totteniana</i> Lea.	Rhode Island.
21	644	<i>vermeta</i> Say.	Indiana.
21	645	<i>Wardiana</i> Lea.	Ohio.
21	646	Auricula bidentata Say.	Mass. to Florida.
21	647	<i>lineata</i> Say.	Maryland & N. Jersey.
21	648	<i>obliqua</i> Say.	South Carolina.
21	649	<i>borealis</i> Conrad.	Rhode Island.
21	650	<i>denticulata</i> Mont.	Massachusetts bay.
21	651	Planorbis armigerus Say.	Mass. to Missouri.
21	652	<i>bellus</i> Lea.	Tennessee.
21	653	<i>bicarinatus</i> Say.	Mass. to Missouri.
21	654	<i>Buchanensis</i> Lea.	Ohio.
21	655	<i>campanulatus</i> Say.	Maine to Ohio.
21	656	<i>corpulentus</i> Say.	New York to Ohio.
22	657	<i>concavus</i> Anthony.	Ohio.
22	658	<i>deflectus</i> Say.	Western States.
22	659	<i>dilatatus</i> Gould.	Massachusetts.
22	660	<i>exacuus</i> Say.	Western States.

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22	661	Planorbis glabratus Say.	South Carolina.
22	662	<i>lentus</i> Say.	Ohio.
22	663	<i>megasoma</i> De Kay.	New York island.
22	664	<i>obtusa</i> Lea.	Ohio.
22	665	<i>obliquus</i> De Kay.	New York island.
22	666	<i>parallelus</i> Say.	Upper Missouri.
22	667	<i>regularis</i> Lea.	Western rivers.
22	668	<i>trivolvus</i> Say.	New York.
22	669	var. <i>fallax</i> Hald.	Massachusetts.
22	670	<i>parvus</i> Hald	Massachusetts.
22	671	<i>antrosus</i> Conrad.	Alabama.
22	672	<i>lens</i> Lea.	Ohio.
22	673	<i>elevatus</i> Adams.	New York.
22	674	<i>hirsutus</i> Gould.	New Bedford.
22	675	<i>virens</i> Adams.	New Bedford.
22	676	Physa ancillaria Say.	New York.
22	677	<i>aurea</i> Lea.	Virginia.
22	678	<i>distorta</i> Hald.	Ohio.
22	679	<i>elongata</i> Say.	Western States.
22	680	<i>eliptica</i> Lea.	Ohio.
22	681	<i>gyrina</i> Say.	Georgia.
22	682	<i>heterostropha</i> Say.	Maine to Missouri.
22	683	<i>Hildrethiana</i> Lea.	Illinois.
22	684	<i>inflata</i> Lea.	Virginia.
22	685	<i>microstoma</i> Hald.	Ohio.
22	686	<i>obesa</i> Mighels.	Maine.
22	687	<i>plicata</i> De Kay.	New York island.
22	688	<i>pomilia</i> Conrad.	Alabama.
22	689	<i>Sayii</i> Tappan.	Ohio.
22	690	<i>Troostiana</i> Lea.	Tennessee.
22	691	<i>fragilis</i> Mighels.	Maine.
23	692	Lymnœa acuta Lea.	Philadelphia.
23	693	<i>apicina</i> Lea.	Oregon.
23	694	<i>appressa</i> Say.	Lake Champlain.
23	695	<i>bulimoides</i> Lea.	Oregon.
23	696	<i>catascopium</i> Say.	Middle States.
23	697	<i>caperata</i> Say.	Indiana.
23	698	<i>columella</i> Say.	Indiana.
23	699	<i>coarctata</i> Lea.	Newport, R. I.
23	700	<i>casta</i> Lea	Ohio.
23	701	<i>chalybæa</i> Gould.	New York.
23	702	<i>curta</i> Lea.	Ohio.
23	703	<i>decidua</i> Say.	New York to Ohio.
23	704	<i>decollata</i> Mighels.	Portland, Me.
23	705	<i>elodes</i> Say.	Western States.

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23	706	Lymncea emarginata Say.	Maine.
23	707	<i>exigua</i> Lea.	Tennessee.
23	708	<i>expansa</i> Hald.	Vermont.
23	709	<i>exilis</i> Lea.	Ohio.
23	710	<i>fusiformis</i> Lea.	Niagara.
23	711	<i>Griffithiana</i> Lea.	Lake Champlain.
23	712	<i>gracilis</i> Jay.	Lake Champlain.
23	713	<i>humilis</i> Say.	South Carolina.
23	714	<i>jugularis</i> Say.	Lake Champlain.
23	715	<i>Kirtlandianus</i> Lea.	Ohio.
23	716	<i>macrostoma</i> Say.	Western States.
23	717	<i>megasoma</i> Say.	Iowa & Vermont.
23	718	<i>modicella</i> Say.	Oswego.
23	719	<i>Nuttalliana</i> Lea.	Oregon.
23	720	<i>obrussa</i> Say.	Pennsylvania.
23	721	<i>pallida</i> Adams.	Vermont.
23	722	<i>parva</i> Lea.	Ohio.
23	723	<i>Philadelphica</i> Lea.	Schuykill.
23	724	<i>platyostoma</i> Hald.	Vermont.
23	725	<i>planulata</i> Lea.	Virginia.
23	726	<i>plica</i> Lea.	Tennessee.
23	727	<i>reflexa</i> Say.	Ohio.
24	728	<i>rustica</i> Lea.	Ohio.
24	729	<i>strigosa</i> Lea.	Ohio.
24	730	<i>solida</i> Lea.	Oregon.
24	731	<i>umbrosa</i> Say.	Ohio.
24	732	<i>umbilicata</i> Adams.	New Bedford.
24	733	<i>pinguis</i> Say.	Schuykill.
24	734	Melania acuta Lea.	Tennessee.
24	735	<i>alveare</i> Conrad.	Alabama.
24	736	<i>annulifera</i> Conrad.	Alabama.
24	737	<i>armigera</i> Say.	Kentucky.
24	738	<i>altilis</i> Lea.	Susquehanna.
24	739	<i>acuto-carinata</i> Lea.	Tennessee.
24	740	<i>bitænata</i> Conrad.	Alabama.
24	741	<i>blanda</i> Lea.	Tennessee.
24	742	<i>Babylonica</i> Lea.	Ohio.
24	743	<i>Boykineana</i> Lea.	Georgia.
24	744	<i>brevis</i> Lea.	Alabama.
24	745	<i>Buddii</i> De Kay.	Erie canal.
24	746	<i>canaliculata</i> Say.	Ohio.
24	747	<i>cancellata</i> Say.	Florida.
24	748	<i>carinata</i> Rav.	North Carolina.
24	749	<i>catenaria</i> Say.	South Carolina.
24	750	<i>calyginosa</i> Lea.	Tennessee.

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24	751	<i>Melania catenoides</i> Lea.	Georgia.
24	752	castanea Lea.	Tennessee.
24	753	circincta Lea.	Tennessee.
24	754	comma Conrad.	Alabama.
24	755	congesta Conrad.	Alabama.
24	756	carinifera Lam.	Cherokee country.
24	757	corrugata Lea.	Tennessee.
24	758	columella Lea.	Ohio.
24	759	conica Say.	Kentucky.
24	760	costulata Lea.	Tennessee.
24	761	concina Lea.	Tennessee.
24	762	crebricostata Lea.	Tennessee.
25	763	clavæformis Lea.	Tennessee.
25	764	curvata Lea.	Tennessee.
25	765	Cuneyana Lea.	Kentucky.
25	766	cylindrica Conrad.	Alabama.
25	767	depygis Say.	Ohio.
25	768	decora Lea.	Kentucky.
25	769	Deshayesiana Lea.	Tennessee.
25	770	Duttoniana Lea.	Tennessee.
25	771	dubisoa Lea.	Tennessee.
25	772	ebenum Lea.	Tennessee.
25	773	Edgariana Lea.	Tennessee.
25	774	elongata Lea.	Tennessee.
25	775	elevata Say.	Ohio.
25	776	expansa Lea.	Alabama.
25	777	excurvata Conrad.	Tennessee.
25	778	exilis Hald.	Ohio.
25	779	florentina Lea.	Alabama.
25	780	Formanii Lea.	Alabama.
25	781	formosa Conrad.	Alabama.
25	782	fuscata Dsh.	Virginia.
25	783	fuliginosa Lea.	Tennessee.
25	784	fusiformis Lea.	Tennessee.
25	785	glabra Lea.	Tennessee.
25	786	globula Lea.	Tennessee.
25	787	gracilis Lea.	Tennessee.
25	788	Haysiana Lea.	Tennessee.
25	789	Holstoniana Lea.	Tennessee.
25	790	Hildrethiana Lea.	Ohio.
25	791	Hydei Conrad.	Alabama.
25	792	impressa Lea.	Alabama.
25	793	inflata Lea.	Virginia.
25	794	integra Say.	Ohio.
25	795	interrupta Hald.	Tennessee.

Page.	No.	Name.	Locality.
25	796	<i>Melania Jayana</i> Lea.	Tennessee.
25	797	<i>Kirtlandiana</i> Lea.	Ohio.
25	798	<i>laqueata</i> Say.	Cumberland river.
26	799	<i>Lecontiana</i> Lea.	Georgia.
26	800	<i>lima</i> Conrad.	Alabama.
26	801	<i>læta</i> Jay.	Alabama.
26	802	<i>lævigata</i> Lea.	Clairborne.
26	803	<i>melanoides</i> Conrad.	Alabama.
26	804	<i>monozonalis</i> Lea.	Tennessee.
26	805	<i>multilineata</i> Say.	Ohio.
26	806	<i>multistriata</i> Lea.	Alabama.
26	807	<i>nasula</i> Conrad.	Alabama.
26	808	<i>nupera</i> Say.	Wabash.
26	809	<i>Nickliniana</i> Lea.	Virginia.
26	810	<i>Niagarensis</i> Lea.	Niagara.
26	811	<i>nitens</i> Lea.	Tennessee.
26	812	<i>nodulosa</i> Lea.	Tennessee.
26	813	<i>obovata</i> Say.	Ohio.
26	814	<i>obtusa</i> Lea.	Tennessee.
26	815	<i>Oconeensis</i> Lea.	Tennessee.
26	816	<i>occidentalis</i> Lea.	Cincinnati.
26	817	<i>olivula</i> Conrad.	Alabama.
26	818	<i>oliva</i> Lea.	Alabama.
26	819	<i>Ordiana</i> Lea.	Tennessee.
26	820	<i>oveliana</i> Lea.	Alabama.
26	821	<i>ovalis</i> Lea.	Alabama.
26	822	<i>perfusca</i> Lea.	Tennessee.
26	823	<i>plicifera</i> Lea.	Oregon.
26	824	<i>picta</i> Lea.	Tennessee.
26	825	<i>pilula</i> Lea.	Tennessee.
26	826	<i>Potosiensis</i> Lea.	Missouri.
26	827	<i>proxima</i> Say.	N. & S. Carolina.
26	828	<i>prasinata</i> Conrad.	Alabama.
26	829	<i>producta</i> Lea.	Tennessee.
26	830	<i>pyrinella</i> Conrad.	Alabama.
26	831	<i>regularis</i> Lea.	Tennessee.
26	832	<i>robusta</i> Lea.	Alabama.
26	833	<i>rufa</i> Lea.	Tennessee.
26	834	<i>salebrosa</i> Conrad.	Tennessee.
27	835	<i>Sayii</i> Ward.	Ohio.
27	836	<i>semicarinata</i> Say.	Ohio.
27	837	<i>simplex</i> Say.	Virginia.
27	838	<i>sordida</i> Lea.	Tennessee.
27	839	<i>strigosa</i> Lea.	Tennessee.
27	840	<i>stygia</i> Say.	Tennessee.

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27	841	Melania striata <i>Lea.</i>	Tennessee.
27	842	<i>subularis</i> <i>Lea.</i>	Niagara Falls.
27	843	<i>subglobosa</i> <i>Say.</i>	Ohio.
27	844	<i>subsolida</i> <i>Lea.</i>	Tennessee.
27	845	<i>subcylindracea</i> <i>Lea.</i>	Tennessee.
27	846	<i>substriata</i> <i>Hald.</i>	Ohio.
27	847	<i>substricta</i> <i>Hald.</i>	Tennessee.
27	848	<i>suturalis</i> <i>Hald.</i>	Tennessee.
27	849	<i>sulcosa</i> <i>Lea.</i>	Tennessee.
27	850	<i>Taitiana</i> <i>Lea.</i>	Clairborne.
27	851	<i>teres</i> <i>Lea.</i>	Tennessee.
27	852	<i>terebralis</i> <i>Lea.</i>	Tennessee.
27	853	<i>tenebrosa</i> <i>Lea.</i>	Tennessee.
27	854	<i>torquata</i> <i>Lea.</i>	Tennessee.
27	855	<i>Troostiana</i> <i>Lea.</i>	Tennessee.
27	856	<i>trochiformis</i> <i>Conrad.</i>	Alabama.
27	857	<i>trilineata</i> <i>Say.</i>	Ohio.
27	858	<i>tuberculata</i> <i>Lea.</i>	Tennessee.
27	859	<i>turgida</i> <i>Lea.</i>	Tennessee.
27	860	<i>undulata</i> <i>Lea.</i>	Ohio.
27	861	<i>Vanuxemensis</i> <i>Lea.</i>	Alabama.
27	862	<i>varicosa</i> <i>Ward.</i>	Ohio.
27	863	<i>vestita</i> <i>Conrad.</i>	Alabama.
27	864	<i>venusta</i> <i>Say.</i>	Tennessee.
27	865	<i>Virginica</i> <i>Say.</i>	Middle States.
27	866	<i>virgata</i> <i>Lea.</i>	Cincinnati.
27	867	<i>viridis</i> <i>Lea.</i>	Cincinnati.
27	868	<i>Wardiana</i> <i>Lea.</i>	Virginia.
27	869	Anculosa angulata <i>Conrad.</i>	Alabama.
28	870	<i>bella</i> <i>Lea.</i>	Alabama.
28	871	<i>carinata</i> <i>Lea.</i>	Roanoke.
28	872	<i>costata</i> <i>Anthony.</i>	Virginia & Ohio.
28	873	<i>dentata</i> <i>Couth.</i>	Potomac.
28	874	<i>dissimilis</i> <i>Say.</i>	Ohio.
28	875	<i>Formanii</i> <i>Lea.</i>	Alabama.
28	876	<i>gibbosa</i> <i>Lea.</i>	Tennessee.
28	877	<i>Griffithiana</i> <i>Lea.</i>	Alabama.
28	878	<i>integra</i> <i>Say.</i>	Alabama.
28	879	<i>isogona</i> <i>Say.</i>	Ohio.
28	880	<i>Kirtlandiana</i> <i>Anthony.</i>	Virginia.
28	881	<i>monodontoides</i> <i>Conrad.</i>	Virginia.
28	882	<i>nigrescens</i> <i>Conrad.</i>	Maryland.
28	883	<i>obovata</i> <i>Lea.</i>	Alabama.
28	884	<i>picta</i> <i>Conrad.</i>	Alabama.
28	885	<i>plicata</i> <i>Conrad.</i>	Tennessee.

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28	886	Anculosa prærosa Say.	Ohio & Tennessee.
28	887	pumilis Conrad.	Black Warrior.
28	888	planulata Lea.	Alabama.
28	889	rubiginosa Lea.	Alabama.
28	890	solida Lea.	Alabama.
28	891	subglobosa Say.	Tennessee.
28	892	tæniata Conrad.	Alabama.
28	893	turgida Hald.	Alabama.
28	894	tuberculata Lea.	Alabama.
28	895	Troostiana Lea.	Tennessee.
28	896	variabilis Lea.	Roanoke.
28	897	Lythasia genicula Lea.	Alabama.
28	898	Schizostoma incisa Lea.	Alabama.
28	899	excisa Lea.	Alabama.
28	900	? <i>Lea</i> (new).	Alabama.
28	901	? <i>Lea</i> (new).	Alabama.
28	902	Io fusiformis Say.	Holstein river, Va.
29	903	spinosa Lea.	Holstein river, Va.
29	904	tenebrosa Lea.	Tennessee.
29	905	Pirena scalariformis Say.	Fresh water lakes and Florida Keys.
29	906	Valvata arenifera.	Schuylkill.
29	907	cinerea Say.	Western States.
29	908	buccata Lea.	Schuylkill.
29	909	humeralis.	
29	910	pupoidea Gould.	Massachusetts.
29	911	tricarinata Say.	Mass. to Missouri.
29	912	unicarinata De Kay.	Erie canal.
29	913	Paludina angulata Lea.	Alabama.
29	914	bimonilifera Lea.	Alabama.
29	915	Coosaensis Lea.	Coosa river, Ala.
29	916	canaliculata Gould.	Massachusetts.
29	917	cyclostomaformis Lea.	Alabama.
29	918	coarctata Lea.	Alabama.
29	919	decisa Say.	Ohio.
29	920	elongata Swains.	Florida.
29	921	Georgiana Lea.	Georgia.
29	922	grana Say.	Pennsylvania.
29	923	heterostropha Tappan.	Ohio.
29	924	hyalina Lea.	Ohio.
29	925	integra Say.	Ohio.
29	926	intertexta Say.	Louisiana.
29	927	incrassata Lea.	Alabama.
29	928	limosa Say.	Western States.
29	929	magnifica Lea.	Georgia.

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29	930	<i>Paludina Nickliniana</i> Lea.	Hot Springs, Va.
29	931	<i>Nuttalliana</i> Lea.	Oregon.
29	932	<i>nuclea</i> Lea.	Oregon.
29	933	<i>obtusa</i> Lea.	Ohio.
29	934	<i>pallida</i> Lea.	Ohio.
29	935	<i>ponderosa</i> Say.	Ohio.
30	936	<i>regularis</i> Lea.	Ohio.
30	937	<i>subcarinata</i> Say.	Ohio.
30	938	<i>subglobosa</i> Say.	Iowa.
30	939	<i>subpurpurea</i> Say.	Illinois.
30	940	<i>transversa</i> Say.	Louisiana.
30	941	<i>Troostiana</i> Lea.	Tennessee.
30	942	<i>unicolor</i> Lam.	South Carolina.
30	943	<i>virens</i> Lea.	Oregon.
30	944	<i>vivipara</i> Lam.	Southern States.
30	945	<i>scalaris</i> Say.	Florida.
30	946	<i>Amnicola albilabris</i> Ward.	Ohio.
30	947	<i>Cincinnatiensis</i> Anthony.	Ohio.
30	948	<i>dentata</i> Say.	Florida.
30	949	<i>lapidaria</i> Say.	Ohio.
30	950	<i>lustrica</i> Say.	Ohio.
30	951	<i>orbiculata</i> Lea.	Ohio.
30	952	<i>porata</i> Say.	Ohio.
30	953	<i>parva</i> Lea.	Ohio.
30	954	<i>pallida</i> Lea.	Massachusetts.
30	955	<i>Sayana</i> Lea.	Ohio.
30	956	<i>gibbosa</i> Anthony.	Ohio.
30	957	<i>tenuipes</i> Hald.	Georgia.
30	958	<i>Ampularia rugosa</i> Lam.	Mississippi.
30	959	<i>depressa</i> Say.	Florida.
30	960	<i>rotundata</i> Say.	Florida.
30	961	<i>Hopetonensis</i> Lea.	Hopeton, Ga.
30	962	<i>Neritina reclinata</i> Say.	Florida.
30	963	<i>Natica alba</i> Say.	Florida.
31	964	<i>canaliculata</i> Gould.	Massachusetts.
31	965	<i>canrena</i> Lam.	Southern coast.
31	966	<i>clausa</i> Brod.	Massachusetts bay.
31	967	<i>duplicata</i> Say.	New York.
31	968	<i>heros</i> Say.	New York.
31	969	<i>immaculata</i> Totten.	Maine to New York.
31	970	<i>flava</i> Gould.	Massachusetts bay.
31	971	<i>lunata</i> Say.	Southern coast.
31	972	<i>pusilla</i> Say.	Southern coast.
31	973	<i>triseriata</i> Say.	Atlantic coast.
31	974	<i>Sigaretus haliotoideus</i> Lam.	Massachusetts bay.

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31	975	<i>Sigaretus maculatus Say.</i>	Southern coast.
31	976	<i>perspectivus Say.</i>	New Jersey.
31	977	<i>Velutina lævigata Brown.</i>	Cape Ann.
31	978	<i>ovata Brown.</i>	Cape Ann.
31	979	<i>zonata Gould.</i>	Massachusetts bay.
31	980	<i>Odostomia exigua Couth.</i>	Boston bay.
31	981	<i>convoluta Gould.</i>	Massachusetts bay.
31	982	<i>fusca Adams.</i>	Eastern States.
31	983	<i>producta Adams.</i>	Eastern States.
31	984	<i>seminuda Adams.</i>	Eastern States.
31	985	<i>trifida Totten.</i>	Rhode Island.
31	986	<i>Tornatella punctostriata Ad.</i>	New York bay.
31	987	<i>Vermetus lumbricalis Linn.</i>	Newport R. I.
31	988	<i>Janthina communis Lam.</i>	Nantucket.
31	989	<i>fragilis Brug.</i>	New Bedford.
31	990	<i>Scalaria clathrus Say.</i>	Southern coast.
31	991	<i>Grœnlandica.</i>	Massachusetts bay.
31	992	<i>Humphreysii Kiener.</i>	Atlantic coast.
32	993	<i>lineata Say.</i>	Atlantic coast.
32	994	<i>multistriata Say.</i>	Southern coast.
32	995	<i>Novangliæ Couth.</i>	Massachusetts bay.
32	996	<i>Delphinula laxa Say.</i>	South Carolina.
32	997	<i>Skenea serpuloides Adams.</i>	Boston bay.
32	998	<i>Trochus occidentalis Mighels.</i>	Maine.
32	999	<i>Turbo canaliculata Say.</i>	Southern States.
32	1000	<i>Margarita arctica Leach.</i>	Massachusetts bay.
32	1001	<i>argentata Gould.</i>	Cohasset, Mass.
32	1002	<i>acuminata Sowerby.</i>	Maine.
32	1003	<i>cinerea Couth.</i>	Massachusetts bay.
32	1004	<i>obscura Couth.</i>	Nahant.
32	1005	<i>varicosa Mighels.</i>	Maine.
32	1006	<i>undulata Sowerby.</i>	Phillips' beach.
32	1007	<i>Littorina rudis Donv.</i>	Atlantic coast.
32	1008	<i>tenebrosa Mont.</i>	Massachusetts bay.
32	1009	<i>palliata Say.</i>	Atlantic coast.
32	1010	<i>Lacuna fusca Adams.</i>	Massachusetts bay.
32	1011	<i>neritoidea Gould.</i>	Chelsea beach.
32	1012	<i>vincta Mont.</i>	Massachusetts bay.
32	1013	<i>Cingula minuta Totten.</i>	Atlantic coast.
32	1014	<i>aculeus Gould.</i>	Massachusetts bay.
32	1015	<i>semicostata Mont.</i>	Maine.
32	1016	<i>arenaria Mont.</i>	Maine.
32	1017	<i>latior Mighels.</i>	Maine.
32	1018	<i>Pyramis striatula Couth.</i>	Cape Ann.
32	1019	<i>fusca Adams.</i>	New Bedford.

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33	1020	Turritella alternata Say.	Atlantic coast.
33	1021	<i>bisuturalis</i> Say.	Massachusetts bay.
33	1022	<i>concava</i> Say.	South Carolina.
33	1023	<i>costulata</i> Mighels.	Maine.
33	1024	<i>erosa</i> Couth.	Massachusetts bay.
33	1025	<i>equalis</i> Say.	South Carolina.
33	1026	<i>impressa</i> Say.	Maryland.
33	1027	<i>interrupta</i> Totten.	Rhode Island.
33	1028	<i>reticulata</i> Mighels.	Maine.
33	1029	Cerithium ferrugineum Say.	Florida.
33	1030	<i>Greenii</i> Adams.	Dartmouth harbor.
33	1031	<i>Emersonii</i> Adams.	New Bedford.
33	1032	<i>nigrocinctum</i> Adams.	New Bedford.
33	1033	<i>terebrale</i> Adams.	New Bedford.
33	1034	<i>muscarium</i> Say.	Florida.
33	1035	<i>septemistriatum</i> Say.	Florida.
33	1036	<i>Sayii</i> Menke.	New Bedford.
33	1037	?	New York bay.
33	1038	Pleurotoma bicarinata Couth.	Massachusetts bay.
33	1039	<i>decussata</i> Couth.	Massachusetts bay.
33	1040	<i>plicata</i> Adams.	Massachusetts bay.
33	1041	<i>violacea</i> Mighels.	Maine.
33	1042	Cancellaria Couthouyi Jay.	Massachusetts bay.
33	1043	Fasciolaria ligata Mighels.	Maine.
33	1044	Fusus Bamffius Fleming.	Massachusetts bay.
33	1045	<i>cinereus</i> Say.	Atlantic coast.
33	1046	<i>cancellatus</i> Mighels.	Maine.
33	1047	<i>decemcostatus</i> Say.	Massachusetts bay.
33	1048	<i>bicolor</i> Say.	Florida.
33	1049	<i>harpularius</i> Couth.	Massachusetts bay.
33	1050	<i>Islandicus</i> Martini.	Massachusetts bay.
34	1051	<i>muricatus</i> Brown.	Massachusetts bay.
34	1052	<i>rufus</i> Gould.	Massachusetts bay.
34	1053	<i>turricula</i> Brown.	Cape Ann.
34	1054	<i>tornatus</i> Gould.	Massachusetts bay.
34	1055	<i>scalariformis</i> Gould.	Massachusetts bay.
34	1056	<i>pygmæus</i> Gould.	Massachusetts bay.
34	1057	<i>ventricosus</i> Gray.	Massachusetts bay.
34	1058	Pyrula canaliculata Lam.	New York.
34	1059	<i>carica</i> Lam.	New York.
34	1060	<i>perversa</i> Say.	Florida.
34	1061	<i>papyratia</i> Say.	Georgia.
34	1062	<i>spirata</i> Say.	Southern States.
34	1063	<i>Stillmanii</i> De Kay.	New York.
34	1064	Ranella candata Say.	New York bay.

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34	1065	<i>Rostellaria occidentalis</i> Beck.	Stomach of fish.
34	1066	<i>Trichotropis borealis</i> Sowerby.	Massachusetts bay.
34	1067	<i>Strombus gigas</i> Linn.	Mobile bay.
34	1068	<i>pyrolatus</i> Lam.	Mobile bay.
34	1069	<i>pugilis</i> Linn.	Florida.
34	1070	<i>Purpura lapillus</i> Lam.	Massachusetts bay.
34	1071	var. <i>imbricata</i> Lam.	Massachusetts bay.
34	1072	var. <i>bizonalis</i> Lam.	Massachusetts bay.
34	1073	<i>Dolium perdix</i> Lam.	Southern coast.
34	1074	<i>olearium</i> Lam.	Southern coast.
34	1075	<i>Cassis flammea</i> Kiener.	North Carolina.
34	1076	<i>saburon</i> Brug.	North Carolina.
34	1077	<i>Buccinum acutum</i> Say.	St. Simon's island.
35	1078	<i>album</i> Say.	Florida.
35	1079	<i>Donovanii</i> Gray.	Maine.
35	1080	<i>ciliatum</i> Gould.	Massachusetts bay.
35	1081	<i>ornatum</i> Say.	Florida.
35	1082	<i>obsoletum</i> Say.	Atlantic coast.
35	1083	<i>rosaceum</i> Gould.	Massachusetts bay.
35	1084	<i>lunatum</i> Say.	Southern States.
35	1085	<i>trivittatum</i> Say.	New York.
35	1086	<i>undatum</i> Linn.	Massachusetts bay.
35	1087	<i>unicinctum</i> Say.	South Carolina.
35	1088	<i>Wheatleyi</i> De Kay.	New York bay.
35	1089	<i>vibex</i> Say.	Massachusetts bay.
35	1090	<i>Terebra Petitti</i> Kiener.	Georgia.
35	1091	<i>Columbella avara</i> Say.	Mass. to Georgia.
35	1092	<i>mercatoria</i> Say.	Florida.
35	1093	<i>Marginella carnea</i> Storer.	Florida.
35	1094	<i>flavida</i> Redfield.	Florida.
35	1095	<i>Oliva conoidalis</i> Lam.	Florida keys.
35	1096	<i>erythostoma</i> Lam.	Florida keys.
35	1097	<i>Sayana</i> Lam.	Florida keys.
35	1098	<i>litterata</i> Say.	Florida keys.
35	1099	<i>textilina</i> Lam.	Florida keys.
35	1100	<i>oryza</i> Lam.	Florida keys.
35	1101	<i>mutica</i> Say.	Southern States.
35	1102	<i>zonalis</i> .	Southern States.
35	1103	<i>Conus leucostricus</i> Gmelin.	Florida keys.
35	1104	<i>mamillaris</i> Green.	Florida keys.
35	1105	<i>Pealeii</i> Green.	Florida keys.
35	1106	<i>mus</i> Brug.	Florida keys.
35	1107	<i>verrucosus</i> Lam.	Florida keys.
35	1108	<i>Spirula Peronii</i> Lam.	Nantucket.

Gould.—Expedition Shells described for the work of the United States Exploring Expedition, commanded by Charles Wilkes, U. S. N.: by AUG. A. GOULD, M. D. Boston, 1846. (Vide Proceedings of the Boston Soc. Nat. Hist., vol. ii.)

(Under this title, Dr. GOULD distributed extras of his papers in Boston Society's Proceedings.)

Redfield.—Description of some New Species of Shells: by JOHN H. REDFIELD. (Annals of N. Y. Lye. Nat. Hist., vol. iv, No. 5, p. 163. 1846.)

Page.	Plate.	Fig.	Name.	Locality.
165	xi	2	<i>Triton Oregonense</i> Redfield.	Straits of San Juan de Fuca, Oregon.

Gibbes.—Molluscous Animals of South Carolina: by Prof. LEWIS R. GIBBES. (From Appendix to the Geology of South Carolina, 1848. No descriptions are given.)

Page.		Page.	
xix	<i>Octopus granulatus</i> Lam.	xix	<i>Pupa ovata</i> Say.
xix	<i>Loligo brevipenna</i> Les.	xix	<i>pentodon</i> Say.
xix	<i>Spirula Peronii</i> Lam.	xix	<i>Bulimus decollatus</i> L.
xix	<i>Tebennophorus Carolinensis</i> Bosc.	xix	—— ?
xix	<i>Limax flavus</i> Linn.	xix	<i>Glandina truncata</i> Gmel.
xix	<i>Helix albolabris</i> Say.	xix	<i>Succinea campestris</i> Say.
xix	<i>major</i> Binn.	xix	<i>ovalis</i> Say.
xix	<i>aspersa</i> Müll.	xix	<i>Auricula bidentata</i> Say.
xix	<i>thyroidus</i> Say.	xix	<i>obliquus</i> Say.
xix	<i>tridentata</i> Say.	xix	<i>Planorbis lentus</i> Say.
xix	<i>fallax</i> Say.	xix	<i>parvus</i> Say.
xix	<i>appressa</i> Say.	xix	<i>glabratus</i> Say.
xix	<i>auriculata</i> Say.	xix	<i>Physa gyrina</i> Say.
xix	<i>Carolinensis</i> Lea.	xx	<i>Limnæus columella</i> Say.
xix	<i>inornata</i> Say.	xx	<i>macrostoma</i> Say.
xix	<i>concava</i> Say.	xx	<i>humilis</i> Say.
xix	<i>alternata</i> Say.	xx	<i>Paludina decisa</i> .
xix	<i>perspectiva</i> Say.	xx	<i>integra</i> Say.
xix	<i>gularis</i> Say.	xx	<i>intertexta</i> Say.
xix	<i>pulchella</i> Müll.	xx	<i>Melania proxima</i> Say.
xix	<i>Pupa rupicola</i> .	xx	<i>catenaria</i> Say.
xix	<i>fallax</i> Say.	xx	<i>altilis</i> Lea.
		xx	<i>Ancylus</i> —— ?

Page.

xx	<i>Fissurella alternata</i> Say.
xx	<i>Crepidula fornicata</i> Linn.
xx	<i>plana</i> Say.
xx	<i>aculeata</i> Gmel.
xx	<i>Chiton apiculatus</i> Say.
xx	<i>Bulla solitaria</i> Say.
xx	<i>canaliculata</i> Say.
xx	<i>Aplysia</i> ———
xx	<i>Sigaretus perspectivus</i> S.
xx	<i>Natica pusilla</i> Say.
xx	<i>duplicata</i> Say.
xx	<i>Scalaria clathrus</i> L.
xx	<i>multistriata</i> Say.
xx	<i>lineata</i> Say.
xx	<i>Littorina irrorata</i> Say.
xx	<i>Turritella</i> ——— ?
xx	<i>Cellularia reticulata</i> L.
xx	<i>Pleurotoma pusilla</i> Rav.
xx	<i>Fusus cinereus</i> Say.
xx	<i>Fasciolaria tulipa</i> L.
xx	<i>distans</i> Lam.
xx	<i>gigantea</i> Kiener.
xx	<i>Pyrula canaliculata</i> Linn.
xx	<i>carica</i> Lam.
xx	<i>perversa</i> Linn.
xx	<i>pyrum</i> Dillw.
xx	<i>Ranella caudata</i> Say.
xx	<i>Murex</i> ———
xx	<i>Strombus alatus</i> Gmel.
xx	<i>Cassis sulcosa</i> Lam. ?
xx	<i>Purpura cataracta</i> Chemn.
xx	<i>Dolium galea</i> L.
xx	<i>Nassa uncinata</i> Say.
xx	<i>obsoleta</i> Say.
xx	<i>vibex</i> Say.
xx	<i>trivittata</i> Say.
xx	<i>Terebra clavata</i> Rav.
xx	<i>dislocata</i> Say.
xx	<i>concava</i> Say.
xx	<i>Columbella avara</i> Say.
xx	<i>lunata</i> Say.
xx	<i>Voluta junonia</i> Chemn.
xx	<i>Marginella spilota</i> Rav.
xx	<i>guttata</i> ? Dillw.
xxi	<i>Cvula acicularis</i> Lam.

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xxi	<i>Oliva literata</i> Lam.
xxi	<i>mutica</i> Say.
xxi	<i>Unio complanatus</i> Sol.
xxi	<i>confertus</i> Lea.
xxi	<i>congaræus</i> Lea.
xxi	<i>fulvus</i> Lea.
xxi	<i>Geddingsianus</i> Lea.
xxi	<i>Griffithianus</i> Lea.
xxi	<i>jejunus</i> Rav.
xxi	<i>palliatu</i> Lea.
xxi	<i>Watereensis</i> Lea.
xxi	<i>angustatus</i> Lea.
xxi	<i>foliatus</i> Lea.
xxi	<i>Vaughanianus</i> Lea.
xxi	<i>modioliformis</i> Lea.
xxi	<i>tenerus</i> Rav.
xxi	<i>crocatu</i> Lea.
xxi	<i>tæniatus</i> Contr.
xxi	<i>Margaritana marginata</i> Say.
xxi	<i>Anodon fluviatilis</i> Sol.
	<i>A. cataracta</i> Say.
xxi	<i>Dunlapiana</i> Lea.
xxi	<i>incerta</i> Lea.
xxi	<i>Cyclas partumeia</i> Say.
xxi	<i>Cyrena Carolinensis</i> Bosc.
xxi	<i>Venus mercenaria</i> L.
xxi	<i>notata</i> Say.
xxi	<i>paphia</i> L.
xxi	<i>elevata</i> Say.
xxi	<i>Artemis concentrica</i> Born.
xxi	<i>Astarte lunulata</i> Contr.
xxi	<i>Lucina tigrina</i> L.
xxi	<i>divaricata</i> L.
xxi	<i>edentula</i> L.
xxi	<i>Cardita tridentata</i> Say.
xxi	<i>Cardium isocardia</i> L.
xxi	<i>muricatum</i> L.
xxi	<i>marmoreum</i> Lam.
xxi	<i>ventricosum</i> Brug.
xxi	<i>Arca incongrua</i> Say.
xxi	<i>pexata</i> Say.
xxi	<i>ponderosa</i> Say.
xxi	<i>transversa</i> Say.
xxi	<i>Nucula approxima</i> Say.
xxi	<i>acuta</i> Contr.

Page.		Page.	
xxi	Sanguinolaria fusca Say.	xxii	Solen viridis Say.
xxi	<i>lusoria</i> Say.	xxii	Solecurtus caribæus Lam.
xxi	Psammobia Cayennensis Lam.	xxii	<i>fragilis</i> Pult.
xxi	Tellina maculosa Lam.	xxii	Pholas costata Linn.
xxi	<i>alternata</i> Say.	xxii	<i>oblongata</i> Say.
xxi	<i>polita</i> Say.	xxii	<i>truncata</i> Say.
xxi	<i>iris</i> Say.	xxii	<i>semicostata</i> Lea.
xxi	<i>tenera</i> Say.	xxii	<i>cuneiformis</i> Say.
xxi	<i>flexuosa</i> Say.	xxii	Teredo palmulatus ?
xxi	<i>brevifrons</i> Say.	xxii	Chama arcinella Linn.
xxi	Donax variabilis Say.	xxii	Mytilus tulipa Lam.
xxii	Saxicava distorta Say.	xxii	<i>plicatula</i> Lam.
xxii	Petricola pholadiformis Lam.	xxii	<i>cubitus</i> Say.
xxii	<i>dactylus</i> Sowb.	xxii	<i>domingensis</i> Lam.
xxii	Lutraria canaliculata Say.	xxii	<i>lateralis</i> Say.
xxii	<i>lineata</i> Say.	xxii	<i>castanea</i> Say.
xxii	Mactra similis Say.	xxii	<i>lithophaga</i> Linn.
xxii	<i>lateralis</i> Say.	xxii	<i>candigera</i> Lam.
xxii	<i>oblongata</i> Say.	xxii	<i>attenuata</i> Desh.
xxii	<i>tellinoides</i> Conr.	xxii	<i>leucopheatus</i> Conr.
xxii	Amphidesma orbiculata S.	xxii	Pinna muricata Linn.
xxii	<i>equalis</i> Say.	xxii	<i>seminuda</i> Lam.
xxii	<i>lepada</i> Say.	xxii	Avicula Atlantica Lam.
xxii	<i>punctata</i> Say.	xxii	Pecten dislocatus Say.
xxii	Mya arenaria L.	xxii	Plicatula cristata Lam.
xxii	Corbula contracta Say.	xxii	Anomia ephippium Linn.
xxii	Solen ensis L.	xxii	Ostrea Virginiana List.
		xxii	<i>fundata</i> Say.
		xxii	<i>equestris</i> Say.

Western Academy.—Catalogue of the Unios, Alasmodontas, and Anodontas of the Ohio River and its Northern Tributaries, adopted by the Western Acad. of Natural Sciences of Cincinnati, January, 1849.

Page.		Page.	
3	Unio abruptus Say.	3	Unio catillus Conr.
	<i>U. orbiculatus</i> Hild.		<i>U. coccineus</i> ? Hald.
3	Æsopus Green.		<i>Gouldianus</i> Ward
3	<i>alatus</i> Say.		(white nacre).
	<i>U. megaptera</i> Raf.	3	cicatricosus Say.
3	anodontoides Lea.		<i>U. varicosus</i> Lea.
	<i>U. tres</i> ? Raf.		

Page.

- 5 **Unio circulus** *Lea.*
U. lens *Lea.*
subrotunda? *Raf.*
- 5 **clavus** *Lam.*
U. scalenia *Raf.*
putulus *Lea.*
- 5 **compressus** *Lea.*
Symph. compressa *Lea.*
- 5 **Cooperianus** *Lea.*
- 5 **cornutus** *Barnes.*
- 5 **crassus** *Say.*
U. ellipsaria *Raf.*
ellipticus *Barnes.*
carinatus *Barnes.*
ligamentina *Lam.*
- 5 **cylindricus** *Say.*
U. naviformis *Lam.*
solenoides *Raf.*
- 7 **cuneatus** *Barnes.*
U. nigra *Raf.*
- 7 **dehiscens** *Say.*
U. oriens *Lea.*
- 7 **donaciformis** *Lea.*
U. zig-zag *Lea.*
- 7 **ebenus** *Lea.*
- 7 **elegans** *Lea.*
- 7 **ellipsis** *Lea.*
- 7 **flavus** *Raf.*
U. rubiginosus *Lea.*
trigonus? *Lea.*
- 7 **flexuosus** *Raf. (male).*
U. foliatus *Hild. (female).*
- 7 **fragosus** *Conr.*
- 9 **gibbosus** *Barnes.*
U. nasutus *Lam.*
dilatatus *Raf.*
arctior *Lea (white*
nacre).
- 9 **glans** *Lea.*
- 9 **gracilis** *Barnes.*
Symph. gracilis *Lea.*
- 9 **iris** *Lea.*
U. subrostratus? *Say.*
- 9 **irroratus** *Lea.*
U. stegaria? *Raf.*

Page.

- 9 **Unio lævissimus** *Lea.*
Symph. lævissima *Lea.*
- 9 **lapillus** *Say.*
U. fabalis *Lea.*
- 9 **monodontus** *Say.*
U. soleniformis *Lea.*
- 11 **multiradiatus** *Lea.*
U. fasciola? *Raf.*
- 11 **nodosus** *Barnes.*
U. metanecra? *Raf.*
- 11 **nodulatus** *Raf.*
U. pustulatus *Lea.*
- 11 **ovatus** *Say.*
- 11 **parvus** *Barnes.*
- 11 **perplexus** *Lea.*
U. gibbosa? *Raf.*
- 11 **personatus** *Say (female).*
U. capillaris *Lea (fem.)*
pilcus *Lea (male).*
- 11 **phaseolus** *Hildr.*
U. planulatus *Lea.*
camelus *Lea.*
- 13 **planus** *Barnes.*
U. leptodon *Raf.*
velum *Say (female).*
Anod. purpurascens *Swain.*
U. tenuissimus *Lea.*
- 13 **plicatus** *Say.*
U. costata *Raf.*
raripectata *Lam.*
undulatus *Desh.*
- 13 **politus** *Say.*
U. subrotundus *Lea.*
- 13 **pustulosus** *Lea.*
U. verrucosus albus *Hild.*
- 13 **Rangianus** *Lea.*
- 13 **rectus** *Lam.*
U. praelongus *Barnes.*
latissima *Raf.*
- 13 **retusus** *Lam.*
U. torsa *Raf.*
- 15 **rugosus** *Barnes.*
U. quadrula? *Raf.*
lachrymosus *Lea.*
asprerrimus *Lea.*

Page.		Page.	
15	Unio Sayii Ward.	17	Unio verrucosus Barnes.
15	securis Lea.		<i>U. tuberculata</i> Raf.
	<i>U. depressa</i> ? Raf.		<i>graniferus</i> Lea.
15	siliquoideus Barnes.	17	Alasmodonta ambigua Say.
	<i>U. inflatus</i> Barnes (fem.)		<i>Unio Hildrethianus</i> Lea.
15	sulcatus Lea (male).	17	calceola Lea.
	<i>U. ridibundus</i> Say (fem.)		<i>A. deltoidea</i> ? Lea.
15	triangularis Barnes.		<i>Unio calceola</i> Lea.
	<i>U. cuneatus</i> Swains.	19	confragosa Say.
	<i>formosus</i> Lea (male).	19	complanata Barnes.
	<i>triqueter</i> ? Raf.	19	rugosa Barnes.
15	tuberculatus Barnes.		<i>A. costata</i> Raf.
	<i>U. tuberculosus</i> Val.	19	truncata Say.
	<i>verrucosa</i> Raf.	19	Anodonta areolata Swains.
17	undatus Barnes.		<i>Alas. edentula</i> Say.
	<i>U. caridiacca</i> Say.	19	Ferussaciana Lea.
	<i>mytiloides</i> Raf.	19	imbecilis Say.
	<i>obliqua</i> Lam.		<i>A. incerta</i> Lea.
	<i>pyramidatus</i> Lea.	19	pavonia Lea.
17	undulatus Barnes.		<i>A. Wardiana</i> Lea.
	<i>U. heros</i> Say.	19	plana Lea.
	<i>multiplicatus</i> Lea.		<i>A. decora</i> Lea (young).
17	ventricosus Barnes.		<i>grandis</i> ? Say.
	<i>U. cordium</i> ? Raf.		<i>gigantea</i> Lea.
	<i>occidens</i> Lea (female).		
	<i>suboratus</i> Lea (male).		

Gould.—Catalogue of Shells with descriptions of New Species:
by Dr. A. A. GOULD. (From Agassiz's Lake Superior, Boston,
1850.)

[Localities are given, and descriptions of those specified as new.—
W. G. B.]

Page.		Page.	
243	Helix albolabris Say.	243	Helix electrina Gould.
243	tridentata Say.	243	chersina Say.
243	thyroides Say.	243	Vitrina limpida Gould (n. s.)
243	alternata Say.		<i>V. pellucida</i> Say.
243	palliata Say.	243	Succinea ovalis Gould.
243	monodon Rack.	243	obliqua Say.
243	perspectiva Say.	243	avara Say.
243	striatella Anthony.	243	Physa heterostropha Say.
243	concava Say.	244	vinosa Gould (n. sp., pl.
243	arborea Say.		vii, fig. 10, 11).

Page.		Page.	
244	<i>Physa ancillaria</i> Say.	245	<i>Amnicola grana</i> Say.
244	<i>Limnea jugularis</i> Say.	245	<i>Paludina ponderosa</i> Say.
244	<i>caperata</i> Say.	245	<i>Melania livescens</i> Menke.
244	<i>humilis</i> Say.		<i>M. Niagarensis</i> Lea.
244	<i>catascopium</i> S. (notes).	245	<i>subulata</i> .
244	<i>desidiosa</i> Say.	245	<i>Cyclas similis</i> Say.
244	<i>lanceata</i> Gould (n. sp.,	245	<i>partumeia</i> Say?
	pl. vii, fig. 8, 9).	245	<i>Pisidium dubium</i> S. (notes).
245	<i>Planorbis bicarinatus</i> Say.	245	<i>Unio radiatus</i> Gmel.
245	<i>parvus</i> Say.	245	<i>Anodonta Pepiniana</i> Lea.
245	<i>Valvata tricarinata</i> Say.		

Agassiz.—On the Embryology of Ascidia and the Characteristics of New Species from the Shores of Massachusetts: by Prof. LOUIS AGASSIZ. (Proc. American Assoc. for Advancement of Science, vol. ii, p. 157, 1850.)

Page.		Page.	
159	<i>Ascidia amphora</i> Ag.	159	<i>Ascidia hirsuta</i> Ag.
159	<i>psammophora</i> Ag.	159	<i>rugosa</i> Ag.
159	<i>ocellata</i> Ag.	159	<i>Boltenia microcosmus</i> Ag.
159	<i>carnea</i> Ag.		

Newberry.—Geographical Distribution of certain Species of Fluvial and Terrestrial Shells: by J. S. NEWBERRY, M. D. (Proc. American Assoc. for Advancement of Science, vol. v, p. 105, 1851.)

Page.	Name.	Locality.
105	<i>Limnea gracilis</i> .	Congress Lake, Ohio.
105	<i>jugularis</i> .	Congress Lake, Ohio.
105	<i>Melania gracilis</i> .	Congress Lake, Ohio.
105	<i>Ancylus fuscus</i> .	Congress Lake, Ohio.
105	<i>Helix diodonta</i> .	Congress Lake, Ohio.
105	<i>multilineata</i> .	Congress Lake, Ohio.

Hartman.—A Classified Catalogue, with Synonyms, of the Terrestrial and Fluvialile Testaceous Mollusks of Chester Co., Pa.: by WM. D. HARTMAN, M. D., one of the Curators of the Chester County Cabinet of Natural Sciences. [No date; no descriptions.]

Unio complanatus Solander.

Mya complanata Solander.

Margarita complanata Lea.

U. purpureus Say.

heterodon Lea.

Alasmodon arcuata Barnes.

Alasmodonta arcuata Barnes.

marginata Say.

Monodonta marginata Say.

Margaritana marginata Lea.

edentula Say.

Anodonta undulata Say.

areolata? Swainson.

rugosa Swainson.

Wardiana Lea.

Pavonia Lea.

Buchanensis Lea.

Anodon grandis Say (female?).

A. plana Lea (male?).

gigantea Lea.

decora Lea (young).

fluvialilis Dillwyn.

Mytilus fluvialilis Dillwyn.

Anodonta cataracta Say.

Cyclas similis Say.

partumeia Say.

securis Prime.

Pisidium dubium Say.

Cyclas dubia Say.

abditum Hald.

variabile Prime.

compressum Prime.

Melania Virginica Say.

M. multilincata (var.?) Say.

Amnicola decisa Hald.

granum Say.

Paludina grana Say.

Paludina decisa Say.

subcarinata Say.

Valvata sincera Say.

Ancylus rivularis Say.

Limnea columella Say.

L. macrostomus Say.

chalybea Gould.

acuminata Adams.

desidiosa Say.

Limneus desidiosus Say.

Limnea obrussa Say.

acuta Lea.

Philadelphica Lea.

humilis Say.

L. modicellus Say.

parva Lea.

caperata Say.

L. umbilicata Adams.

fragilis Linn.

Helix fragilis Linn.

L. elodes Say.

catascopium Say.

L. pinguis Say.

decollata (var.) Mighels.

Physa heterostropha Say.

Lymnea heterostropha Say.

P. aurca Lea.

gyrina Say.

P. elliptica Lea.

ancillaria Say.

P. Sayi Tappan.

Planorbis campanulatus Say.

bicarinatus Say.

Helix angulatus Rackett.

Heliosoma bicarinata Swains.

trivolis Say.

P. fallax (var.) Say.

regularis Lea.

armigerus Say.

concavus Anthony.

Vertigo Gouldii Binney.

Pupa Gouldii Binney.

Vertigo ovata Say.	<i>H. scabra</i> Lam.
<i>Pupa modesta</i> Say.	<i>radiata</i> Gmelin.
Pupa contracta Say.	Helix concava Say.
<i>armifera</i> Say.	<i>H. planorboides</i> Ferussac.
<i>fallax</i> Say.	<i>cellaria</i> Müller.
<i>Cyclostoma marginata</i> Say.	<i>H. glaphyra</i> Say (naturalized).
<i>P. placida</i> Say.	<i>suppressa</i> Say.
<i>albilabris</i> Ward.	<i>indentata</i> Say.
Bulimus lubricus Brug.	<i>electrina</i> Gould.
Helix albolabris Say.	<i>arborea</i> Say.
<i>thyroidus</i> Say.	<i>chersina</i> Say.
<i>tridentata</i> Say.	<i>lineata</i> Say.
<i>H. fallax</i> (var.?) Say.	Succinea obliqua Say.
<i>hirsuta</i> Say.	<i>S. ovalis</i> Say.
<i>pulchella</i> Müller.	<i>campestris</i> Gould.
<i>H. minuta</i> Say.	<i>avara</i> Say.
<i>paludosa</i> Montagu.	<i>S. vermeta?</i> Say, Adams.
<i>labyrinthica</i> Say.	Limax agrestis Müller.
<i>alternata</i> Say.	<i>L. tunicata</i> Gould.

Stimpson.—Shells of New England; a revision of the Synonymy of the Testaceous Mollusks of New England, with Notes on their Structure and their Geographical and Bathymetrical Distribution, with figures of new species: by WILLIAM STIMPSON. Boston, 1851.

ACEPHALA.

BRACHIOPODA.

Terebratulidæ.

Page.		Page.	
7	Terebratula septentrionalis <i>Couth.</i>	7	Hypothyris psittacea King. <i>Terebratula psittacea</i>
	<i>T. caput-serpentis</i> Gould.		Lam.

LAMELLIBRANCHIATA.

Anomiadæ.

7	Anomia ephippium Linn.	var. <i>squamula</i> .
	var. <i>aculeata</i> .	var. <i>electrica</i> .

Ostreadæ.

8	Ostrea borealis Lam.
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Pectenidæ.

Page.		Page.	
8	Pecten Magellanicus Lam.	8	Pecten irradians Lam.
8	Islandicus Müller.		<i>P. concentricus</i> Say.
		8	fuscus Linsley.

Arcadæ.

8	Arca transversa Say.	8	Arca pexata Say.
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Nuculidæ.

8	Nucula proxima Say.	10	Leda Cascoensis St.
8	tenuis Turton.		<i>Nucula Cascoensis</i> Migh.
	<i>Arca tenuis</i> Mont.		et Adams.
9	delphinodonta Mighels et Adams.	10	myalis St.
9	Leda thraciæformis Stimp.		<i>Nucula myalis</i> Conth.
	<i>Nucula thraciæformis</i> Stor.		<i>Yoldia angularis</i> Möll.
	<i>navicularis</i> Conth.	10	limatula St.
10	obesa St. (pl. ii, fig. 1).		<i>Nucula limatula</i> Say.
10	sapotilla St.	10	tenuisulcata St.
	<i>Nucula sapotilla</i> Gould.		<i>Nucula tenuisulcata</i> Cout.
			<i>minuta</i> Gould.

Mytilidæ.

11	Mytilus decussatus Mont.	12	Mytilus levigatus St.
	<i>Modiola glandula</i> Totten.		<i>M. discors</i> O. Fabr.
	<i>Crenella decussata</i> DeKay.		<i>Modiola levigata</i> Gray.
11	pectinulus St.		<i>discrepans</i> Gld.
	<i>Modiola pectinula</i> Gould.	12	discrepans Montagu.
	<i>Mytilus faba</i> O. Fabr.?		<i>Modiola nigra</i> Gray.
12	corrugatus St.		<i>nigra</i> Gld. (y'ng.)
	<i>Modiola discors</i> Gould.		<i>Crenella nigra</i> F. et H.
12	discors Linn.	12	plicatulus Desh.
	<i>Modiola discrepans</i> Lam.		<i>Modiola plicatula</i> Lam.
	<i>Crenella discors</i> F. et H.	12	modiolus L.
		12	edulis L.

Unionidæ.

13	Unio complanatus Lea.	13	Lampsilis radiata Ag. MS.
	<i>Mya complanata</i> Soland.		<i>Mya radiata</i> Gmel.
13	Eurynea prælonga Ag. MS.		<i>Unio radiata</i> Lam.
	<i>Unio prælongus</i> Barnes.	14	cariosa Ag. MS.
13	nasuta Ag. MS.		<i>Unio cariosus</i> Say.
	<i>Mya nasuta</i> Wood.	14	ochracea Ag. MS.
	<i>Unio nasutus</i> Say.		<i>Unio ochraceus</i> Say.

Page.		Page.	
14	Lampsilis ventricosa Ag. MS.	15	Alasmodonta marginata S.
	<i>Unio ventricosus</i> Barnes.	15	Strophitus undulatus Raf.
14	siliquioidea Ag. MS.		<i>Anodonta undulata</i> Say.
	<i>Unio siliquioideus</i> Barnes.	15	sculptilis Ag. MS.
14	Metaptera alata Ag. MS.		<i>Unio undulata</i> Say.
	<i>Unio alatus</i> Say.		<i>Alasm. undulata</i> Barnes.
14	gracilis Ag. MS.		<i>Alasm. sculptilis</i> Say.
	<i>Unio gracilis</i> Barnes.	15	Anodonta Benedictensis
14	Complanaria rugosa Ag. MS.	15	implicata Say. [Lea.
	<i>Alasmodonta rugosa</i> Barn.	15	fluviatilis Lea.
14	alasmodontina Ag. MS.		<i>Mytilus fluviatilis</i> Dill.
	<i>Unio alasmodontinus</i> Barn.	15	marginata Say.
	<i>compressus</i> Lea.	15	Housatonica Linsley.
15	Margaritana arcuata Phil.	15	subcylindracea Lea.
	<i>Alasm. arcuata</i> Barnes.		

Cycladidæ.

16	Cyclas similis Say.	16	Pisidium dubium Gould.
16	rhomboidea Say.		<i>Cyclas dubia</i> Say.
16	elegans Adams.	16	minus St.
16	partumeia Say.		<i>Cyclas minor</i> Ad. et Migh.
16	pellucida Prime.	16	Adamsii Prime MS.
	<i>C. calyculata</i> Adams.		<i>Cyclas nitida</i> Ad. et Migh.
16	truncata Linsley.	16	ventricosum Prime.
16	orbicularia Barratt.		

Kelliadæ.

16	Montacuta elevata St.	17	Kellia planulata St.
	<i>M. bidentata</i> Gould.		<i>K. rubra</i> Gould.
16	Turtonia minuta Alder.		
	<i>Venus minuta</i> O. Fabr.		

Lucinidæ.

17	Thyasira Gouldii St.	17	Lucina strigilla St.
	<i>Lucina Gouldii</i> Phil.		<i>L. divaricata</i> Auct.
	<i>Lucina flexuosa</i> Gould.	17	filosa St.
			<i>L. radula</i> Gould.

Astartidæ.

17	Cardita borealis Conr.		<i>A. undata</i> Mighels.
18	Astarte mactracea Linsley.	18	Astarte Portlandica Mighels.
	<i>A. lunulata</i> Conr.?	18	quadrans Gould.
18	sulcata Flem.	18	castanea Say.
	<i>Pectunculus sulcatus</i> Da C.		

Cyprinidæ.

Page.

Page.

18 *Cyprina Islandica* Lam.**Cardiadæ.**19 *Cardium Islandicum* Linn.*Cardium Grœnlandicum* Chemn.19 *pinnulatum* Conr.*edentulum* Sow.19 *Mortoni* Conr.*Acardo edentulus* Swains.19 *Aphrodite Grœnlandica* St.*Aphrodite columba* Lea.**Veneridæ.**19 *Venus mercenaria* Linn.19 *Cytherea convexa* Say.19 *fluctuosa* Gould.19 var. *minor*.19 *gemma* Totten.*C. morrhua* Linsley?**Mastridæ.**20 *Mastra lateralis* Say.20 *Mastra solidissima* Chemn.20 *ponderosa* Phil.20 *similis* Say.*M. oralis* Gould.**Donacidæ.**20 *Mesodesma arctatum* Gould.20 *Mesodesma deauratum* Hanl.*Mastra arctata* Conr.*Mastra deaurata* Turton.*Mesodesma Jaurisii* Joan.**Tellinidæ.**20 *Cumingia tellinoides* Conr.*T. sordida* Couth.20 *Tellina fusca* Phil.*calcareia* Lyell.*Sanguinolaria fusca* Say.21 *Tellina tenera* Say.*T. Grœnlandica* Beek?21 *tenta* Say.21 *proxima* Brown.21 *versicolor* Cozens.*Sanguin. sordida* Gould.21 *elucens* Michels.**Solemyadæ.**21 *Solemya velum* Say.21 *Solemya borealis* Totten.**Solenidæ.**22 *Solecortus gibbus* F. et H.22 *Machæra squama* Gould MS.*Solen gibbus* Spengler.*Solecortus squama* Blainv.*Caribæus* Lam.*M. nitida* Gould.*Solecortus Caribæus* Conr.22 *costata* Gould.22 *bidens* F. et H.*Solen costatus* Say.*Solen bidens* Chemn.*Nahantensis* Desm*fragilis* Pult.*Sagi* Griffith.*centralis* Say.22 *Solen ensis* Linn.*Solecortus fragilis* Gould.

Anatinidæ.

Page.		Page.	
22	<i>Anatina papyracea</i> Say.	22	<i>Thracia truncata</i> Mighels.
22	<i>Cochlodesma Leanum</i> Couth.	23	Couthouyi St.
	<i>Anatina Leana</i> Couth.	23	Conradi Couth.

Pandoridæ.

23	<i>Lyonsia hyalina</i> Conr.	23	<i>Pandora trilineata</i> Say.
	<i>Osteodesma hyalina</i> Conr.		

Corbulidæ.

24	<i>Corbula contracta</i> Say.
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Myadæ.

24	<i>Glycymeris siliqua</i> Lam.		<i>P. arctica</i> Desh.
	<i>Mya siliqua</i> Chemn.	24	<i>Mya truncata</i> Linn.
24	<i>Panopæa Norvegica</i> Lovèn.	24	<i>arenaria</i> Linn.
	<i>Mya Norvegica</i> Spengl.		

Gastrochaenidæ.

24	<i>Petricola pholadiformis</i> Lam.		<i>S. distorta</i> Say.
	<i>P. fornicata</i> Say.	25	<i>Saxicava rugosa</i> Lam.
24	<i>dactylus</i> Say.		<i>Mytilus rugosus</i> O. Fabr.
25	<i>Saxicava arctica</i> Desh.		<i>S. distorta</i> Say.
	<i>Mya arctica</i> L.		

Pholadidæ.

25	<i>Pholas costata</i> Linn.	25	<i>Pholas crispata</i> Linn.
25	<i>truncata</i> Say.	26	<i>Teredo dilatata</i> St.

GASTEROPODA.**PTEROPODA.****Hyaleadæ.**

27	<i>Hyalea trispinosa</i> Lesueur.
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Limacinadæ.

27	<i>Spirialis Gouldii</i> St. (pl. i, fig. 4).
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Clionidæ.

27	<i>Clione borealis</i> Gray		<i>Clio borealis</i> Linn.
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PROSOBRANCHIATA.**Dentaliadæ.**

28	<i>Dentalium striolatam</i> St.	28	<i>Dentalium occidentale</i> St.
	<i>D. entalis</i> Migh.		<i>D. dentale</i> Gould.

Chitonidæ.

Page.		Page.	
23	Chiton apiculatus Say.	29	Chiton marmorens O. Fabr.
	<i>C. pectinatus</i> Gould MS.		<i>C. levigatus</i> Flem.
23	cinereus Linn.		<i>C. fulminatus</i> Couth.
	<i>C. marginatus</i> Penn.	29	mendicarius Migh. et Ad.
28	albus Linn.	29	Amicula vestita Gray.
29	ruber Linn.		<i>Chiton vestitus</i> Br. et Sow.
			<i>Emersonii</i> Couth.

Patellidæ.

29	Pilidium candidum St.		<i>Lottia testudinalis</i> Forbes.
	<i>Patella candida</i> Couth.		<i>Acmra testudinalis</i> Hanley.
29	Tectura testudinalis Gray.	30	Tectura alveus St.
	<i>Patella testudinalis</i> Müll.		<i>Patella alveus</i> Conr.
	<i>amana</i> Say.		<i>Lottia alveus</i> Gould.

Calyptræidæ.

30	Calyptræa striata Say.	30	Crepidula unguiformis Lam.
30	Crepidula fornicata Lam.		<i>C. plana</i> Say.
	<i>Patella fornicata</i> Linn.	30	convexa Say.
	<i>C. glauca</i> Say.		

Fissurellidæ.

30	Diadora Noachina Gray.		<i>Cemoria princeps</i> Migh. et Ad.
	<i>Patella Noachina</i> Linn.		<i>Puncturella Noachina</i> Lowe.
	<i>Cemoria Noachina</i> Gould.		

Trochidæ.

31	Trochus occidentalis Migh.		<i>M. arctica</i> Gould.
	et Adams.		<i>Trochus helycinus</i> F. et H.
	<i>Margarita alabastrum</i>	32	Margarita coarctata St.
	Beck MS.		<i>Delphinula coarctata</i>
	<i>T. alabastrum</i> F. et H.		Mighels.
31	Margarita cinerea Gould.	32	? multilineata De Kay.
	<i>Turbo cinereus</i> Couth.	32	? ornata De Kay.
31	obscura Gould.	32	Adeorbis costulata St.
	<i>Turbo obscurus</i> Couth.		<i>Margarita? costulata</i> Möll.
31	undulata Sowb.		— ? <i>costulata</i> F. et H.
31	argentata Gould.		<i>Marg. minutissima</i> Migh.?
32	helicina Möll.	32	Phasianella sulcosa Migh.
	<i>Turbo helycinus</i> O. Fabr.		

Ianthinidæ.

32	Ianthina fragilis Brug.
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Paludinidæ.

Page.		Page.	
32	Melania depygis Say.	33	Valvata tricarinata Say.
33	Paludina decisa Say.	33	sincera Say.
33	Amnicola porata Gould.	33	pupoidea Gould.
33	pallida Hald.		

Littorinidæ.

33	Littorina rudis Gould.	33	Rissoa modesta St.
	<i>Nerita littorea</i> O. Fabr.		<i>Cingula modesta</i> H. C. Lea.
	<i>Turbo rudis</i> Don.		<i>lavis</i> De Kay?
	<i>tenebrosus</i> Mont.	34	latior St.
	<i>obligatus</i> Say.		<i>Cing. latior</i> Migh. et. Ad.
	<i>restitus</i> Say.	34	eburnea St. (pl. i, fig. 1).
	<i>L. Grönländica</i> Müll.	34	aculeus St.
	<i>tenebrosa</i> Forbes.		<i>Cingula aculeus</i> Gould.
33	littoralis F. et II.		<i>Paludinella aculeus</i>
	<i>Nerita littoralis</i> L.		Middendorff?
	<i>Turbo palliatus</i> Say.	34	multilineata St. (pl. i, f. 2).
	<i>L. palliata</i> Gould.	34	Mighelsii St.
	<i>neritoides</i> De Kay.		<i>Cingula arenaria</i> M. et Ad.
33	irrorata Gray.	34	exarata St. (pl. i, fig. 3).
	<i>Turbo irroratus</i> Say.	34	pelagica St.
	<i>Phasianella sulcata</i> Lam.		<i>Cingula semicostata</i> Migh.
33	Lacuna vineta Turton.		et Ad.
	<i>Turbo divaricatus</i> O. Fabr.	35	Skenea planorbis F. et II.
	<i>vinetus</i> Mont.		<i>Turbo planorbis</i> O. Fabr.
33	neritoidea Gould.		<i>S. serpuloides</i> Gould.
33	Rissoa minuta St.		
	<i>Turbo minutus</i> Tott.		
	<i>Cingula minuta</i> Gould.		

Turritellidæ.

35	Turritella costulata M. et Ad.	35	Turritella acicula St.
35	areolata St.		(pl. i, fig. 5).
35	erosa Couth.	36	Cæcum pulchellum St.
			(pl. ii, fig. 3).

Cerithiadæ.

37	Aporrhais occidentalis Beck.	37	Cerithium Sayi Menke.
	<i>Rostellaria occidentalis</i>	37	Greenii Adams.
	Gould.	37	nigrocinctum Adams.

Vermetidæ.

37	Vermetus radricula St.		<i>V. bicarinatus</i> Desh.?
	<i>V. lumbricalis</i> Gould.		<i>Knorrii</i> Desh.?

Scalariaæ.

Page.		Page.	
39	Scalaria Novangliæ Couth.	39	Scalaria multistriata Say.
39	Grönlandica Gould.	39	Eulima oleacea Kurtz et St.
39	lineata Say.		(pl. i, fig. 6).

Pyramidellidæ.

40	Menestho albula Möll.	42	Chemnitzia bisuturalis St.
	<i>Turbo albulus</i> O. Fabr.		<i>Turritella bisuturalis</i> Say.
	<i>Pyramis striatula</i> Couth.		<i>Jaminia exigua</i> Couth.
40	Chemnitzia nivea St.		<i>Odostomia exigua</i> Gould.
41	interrupta St.	42	trifida St.
	<i>Turritella interrupta</i> Tott.		<i>Actæon trifidus</i> Tott.
41	producta St.		<i>Odostomia trifida</i> Gould.
	<i>Jaminia producta</i> Adams.	42	impressa Kurtz MS.
	<i>Odostomia producta</i> Gould.		<i>Turritella impressa</i> Say.
41	fusca St.		<i>Odostomia insculpta</i> De K.
	<i>Pyramis fusca</i> Adams.	42	seminuda St.
	<i>Odostomia fusca</i> Gould.		<i>Jaminia seminuda</i> Adams.
41	dealbata St.		<i>Odostomia seminuda</i> Gld.
41	modesta St.		

Naticidæ.

42	Natica flava Gould.	42	Natica Gouldii Phil.
42	helicoides Johnston.	43	Grœnlandica Beck.
	<i>N. canaliculata</i> Gould.		<i>N. pusilla</i> Gould.
	<i>cornea</i> Phil.	43	immaculata Totten.
	<i>Gouldii</i> Adams.	43	duplicata Say.
42	heros Say.	43	pusila Say.
42	triseriata Say.	43	clausa Brod. et Sow.

Velutinidæ.

44	Velutina haliotoides Möll.	44	Lamellaria perspicua Lovèn.
	<i>Helix haliotoides</i> O. Fabr.		<i>Helix perspicua</i> Linn.
	<i>V. lavigata</i> Flem.		<i>Sigaretus haliotoideus</i> Flem.
44	zonata Gould.		

Cancellariaæ.

44	Admete viridula St.	45	Trichotropis borealis
	<i>Tritonium viridulum</i> O. Fabr.		Brod. et Sow.
	<i>Murex costellifer</i> Sow.	45	Cerithiopsis terebellum St.
	<i>Cancellaria buccinoides</i> Cou.		<i>Cerithium terebrale</i> Ad.
	<i>Couthougi</i> Jay.		<i>terebellum</i> Ad.
	<i>Admete crispa</i> Möll.	45	Emersonii St.
	<i>Cancellaria viridula</i> Lovèn.		<i>Cerithium Emersonii</i> Ad.

Muricidæ.

Page.		Page.	
45	Ranella caudata Say.	47	Tritonium clathratum Müll.
45	Purpura lapillus Lam.		<i>Murex clathratus</i> Linn.
	<i>Buccinum lapillus</i> Linn.		<i>Bamffius</i> Don.
45	Nassa trivittata Say.		<i>Fusus Bamffius</i> Flem.
	<i>Buccinum trivittatum</i> Ad.		<i>Trophon clathratum</i>
45	vibex Say.		F. et H.
	<i>Buccinum vibex</i> Ad.	47	scalariforme St.
45	obsoleta Say.		<i>Fusus scalariformis</i> Gould.
	<i>Buccinum obsoletum</i> Ad.		<i>T. clathratum</i> var. Lovèn.
45	Buccinum undatum Linn.	47	Fasciolaria ligata Migh. et Ad.
46	plicosum Menke.	47	Pyrula canaliculata Brug.
	<i>Fusus cinereus</i> Say.		<i>Murex canaliculata</i> Linn.
46	Tritonium ventricosum St.	47	carica Brug.
	<i>Fusus ventricosus</i> Gray.		<i>Murex carica</i> Gmel.
46	Islandicum Lovèn.		<i>P. aurumana</i> Reeve.
	<i>Murex Islandicus</i> Chemn.	47	Columbella rosacea St.
	<i>Fusus Islandicus</i> Gould.		<i>Buccinum rosaceum</i> Gld.
46	pygmæum St.	47	dissimilis St.
	<i>Fusus Islandicus</i> var. <i>pyg-</i>		<i>Buccinum zonale</i> Linsley?
	<i>mæus</i> Gould.	48	lunata Sow.
	<i>Fusus pygmaeus</i> Migh.		<i>Nassa lunata</i> Say.
46	decemcostatum		<i>Buccinum lunata</i> Ad.
	<i>Middendorff.</i>	48	Fusus Trumbulli Linsley?
	<i>Fusus decemcostatus</i> Say.	48	Buccinum Veatleyi De Kay?
		48	Columbella Gouldiana Ag.
		48	avara Say. [MS.]

Conidæ.

48	Mangelia turricula F. et H.	49	Mangelia cancellata St.
	<i>Murex turricula</i> Mont.		<i>Fusus cancellatus</i> M. et A.
	<i>Fusus turricula</i> Brown.	49	decussata St.
48	harpularia St.		<i>Pleurotoma decussata</i> Cou.
	<i>Fusus harpularius</i> Couth.	49	violacea St.
49	pyramidalis St.		<i>Pleurotoma violacea</i>
	<i>Buccinum pyramidale</i>		Migh. et Ad.
	Ström.	49	bicarinata St.
	<i>Tritonium pyramidale</i>		<i>Pleurotoma bicarinata</i> Cou.
	Lovèn.	49	Pleurotoma cerinum Kurtz et
	<i>Fusus rufus</i> Gould.		St. (pl. ii, fig. 2).
		49	plicatum Adams.

TECTIBRANCHIATA.

Bullidæ.

Page.		Page.	
50	<i>Bulla hiemalis</i> Couth.	50	<i>Bulla solitaria</i> Say.
50	<i>oryza</i> Totten.		<i>B. insculpta</i> Tott.
50	<i>triticea</i> Couth.	50	<i>puncto-striata</i> M. et Ad.
	<i>B. corticata</i> Möll.	51	<i>Philine lineolata</i> St.
50	<i>canaliculata</i> Say.		<i>Bulla lineolata</i> Couth.
	<i>B. obstricta</i> Gould.	51	<i>sinuata</i> St. (pl. i, fig. 7).
50	<i>pertenuis</i> Mighels.	51	<i>formosa</i> St.
50	<i>incincta</i> Mighels.		<i>P. quadrata</i> F. et H.?
50	<i>debilis</i> Gould.		<i>scutulum</i> Lovén.?
50	<i>Gouldii</i> Couth.		

Tornatellidæ.

51	<i>Actæon puncto-striata</i> St.		<i>Tornatella puncto-striata</i> Ad.
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Melampidæ.

51	<i>Melampus corneus</i> St.		<i>Voluta denticulata</i> Mont.
	<i>M. bidentatus</i> Say.		<i>Auricula denticulata</i> Gld.
	<i>Auricula cornu</i> Desh.	52	<i>Carychium exiguum</i> Gould.
	<i>bidentata</i> Gould.		<i>Pupa exigua</i> Say.
52	<i>denticulatus</i> Auct.		<i>Bulinus exiguus</i> Binney.

PNEUMOBRANCHIATA.

Limnæadæ.

52	<i>Ancylus parallelus</i> Hald.	52	<i>Limnæa elodes</i> Say.
	<i>A. rivularis</i> Gould.	52	<i>gracilis</i> Jay.
52	<i>fuscus</i> Adams.	53	<i>Physa heterostropha</i> Say.
52	<i>tardus</i> Say.	53	<i>fragilis</i> Migh. et Ad.
52	<i>Limnæa appressa</i> Say.	53	<i>ancillaria</i> Say.
52	<i>decollata</i> Migh. et Ad.	53	<i>gyrina</i> Say.
52	<i>catascopium</i> Say.	53	<i>elongata</i> Say.
	<i>L. pinguis</i> Say.	53	<i>Planorbis trivolvis</i> Say.
	<i>emarginata</i> Say.	53	<i>lentus</i> Say.
52	<i>ampla</i> Migh.	53	<i>bicarinatus</i> Say.
52	<i>megasoma</i> Say.	53	<i>campanulatus</i> Say.
52	<i>columella</i> Say.	53	<i>armigerus</i> Say.
	<i>L. macrostoma</i> Say.	53	<i>hirsutus</i> Gould.
52	<i>caperata</i> Say.	53	<i>deflectus</i> Say.
	<i>L. umbilicata</i> Adams.	53	<i>exacutus</i> Say.
52	<i>humilis</i> Say.	53	<i>parvus</i> Say.
	<i>L. modicellus</i> Say.		<i>P. elevatus</i> Adams.
52	<i>pallida</i> Adams.	53	<i>dilatatus</i> Gould.
52	<i>desidiosa</i> Say.		<i>P. lens</i> Lea.

Vertiginidæ.

Page.		Page.	
53	Vertigo milium Gould.	53	Vertigo ovata Say.
	<i>Pupa milium</i> Gould.		<i>Pupa ovata</i> Sager.
53	Gouldii Gould.		<i>modesta</i> Say.
	<i>Pupa Gouldii</i> Binney.	53	simplex St.
			<i>Pupa simplex</i> Gould.

Pupadæ.

53	Pupa pentodon Binney.	54	Pupa contracta Say.
	<i>Vertigo pentodon</i> Say.	54	badia Adams.
	<i>P. curvidens</i> Gould.	54	armifera Say.

Helicidæ.

54	Bulimus harpa Pfeiff.	55	Helix striatella Anthony.
	<i>Helix harpa</i> Say.	55	exigua St.
	<i>Pupa costulata</i> Migh.		<i>H. annulata</i> Case?
54	fallax Gould.	55	minuscule Binney.
	<i>Pupa fallax</i> Say.	55	fuliginosa Griffith.
54	lubricoides St.	55	cellaria Müll.
	<i>B. lubricus</i> Gould.	55	inornata Say.
54	Helix albolabris Say.	55	arborea Say.
54	nemoralis Linn.	55	electrina Gould.
	<i>H. hortensis</i> Müll.	55	indentata Say.
	<i>subglobosa</i> Binney.	55	chersina Say.
54	thyroidus Say.	55	suppressa Say.
54	dentifera Binney.	55	multidentata Binney.
54	tridentata Say.	55	lineata Say.
54	palliata Say.	55	Succinea obliqua Say.
54	monodon Rackett.		<i>S. campestris</i> Gould.
54	hirsuta Say.		<i>ovalis</i> Say.
54	concava Say.	55	avara Say.
54	minuta Say.	55	ovalis Gould.
	<i>H. pulchella</i> Gould.	55	Vitрина pellucida Drap.
54	Sayii Binney.		<i>Helix pellucida</i> Müll.
54	labyrinthica Say.		<i>Vitрина limpida</i> Gould.
55	alternata Say.		

Limacidæ.

56	Limax campestris Binney.	56	Tebennophorus dorsalis
56	agrestis Müll.		<i>Binney.</i>
	<i>L. tunicata</i> Gould.		<i>Phylomycus dorsalis</i> Binn.
56	variegatus Drap.	56	Carolinensis Binney.
56	Arion hortensis Fér.		<i>Limax Carolinensis</i> Bosc.
			<i>togata</i> Gould.

CEPHALOPODA.

DECAPODA.

Spirulidæ.

Page.

Page.

57 *Spirula Peronii* Lam.

Loliginidæ.

57 *Loligo illecebrosa* Lesueur. | 57 *Loligo pavo* Lesueur.

ERRATA.

58 *Pecten fuscus* Linsley (preoc.) = *Pecten brunneus* St.58 *Leda obesa* St.

Prime.—Descriptions of two new Species of Fresh-water Shells:
by TEMPLE PRIME. (From Annals of N. Y. Lyceum of Natural
History, vol. v. February, 1852.)

Page.	Plate.	Name.	Locality.
218	vi	<i>Cyclas securis</i> Prime.	Massachusetts.
219	vi	<i>Pisidium compressum</i> Prime.	Massachusetts.

Jay.—A Catalogue of the Shells, arranged according to the Lameckian System, &c., contained in the Collection of JOHN C. JAY, M. D. Fourth edition, with Supplement. New York, 1852. [No descriptions.]

CLASS TROPIPODA.

ORDER BIMUSCULOSA.

Family Tubicola.

Page.	Name.	Locality.
9	<i>Teredo navalis</i> Linn.	Atlantic ocean.

Family Pholadaria.

9	<i>Pholas Californica</i> Conrad.	Upper California.
	<i>P. Janellii</i> Desh.	
10	<i>costata</i> Linn.	South Carolina.
10	var.	N. Y., Gulf of Mexico.
10	<i>crispata</i> Linn. (var.)	Sandy Hook.
10	<i>penita</i> Conrad.	California.
	<i>P. concamerata</i> Desh.	
10	<i>truncata</i> Say.	New York.

Family **Solenacea.**

Page.	Name.	Locality.
11	Solen ensis Linn.	N. Y., Rhode Island.
11	siliqua Linn.	New York.
11	vagina Linn.	New York.
11	viridis Say.	Rhode Island.
12	Solecortus Californianus Conrad. (<i>Cultellus</i> Conrad.)	Upper California.
12	Caribæus Lam. <i>S. Guineensis</i> ? Chem.	N. Y., Rhode Island.
12	coarctatus Gmelin (var.) <i>S. centralis</i> Say. <i>antiquatus</i> Lam.	Rhode Island.
12	subteres Conrad. <i>Cultellus subteres</i> Conrad.	Upper California.
12	Machæra costata Say.	New York.
12	lucida Conrad.	Upper California.
12	maxima Wood. <i>Solecortus Nuttallii</i> Conrad.	Oregon.
12	media Gray. <i>M. nitida</i> Gould.	B'ks of Newfoundland.
12	Panopæa Norvegica Speng. <i>P. arctica</i> Gould.	B'ks of Newfoundland.
13	Glycimeris siliqua Lam. <i>Mya siliqua</i> . <i>picea</i> .	Newfoundland.
13	Solemya borealis Totten.	Rhode Island.
13	velum Say.	New York.

Family **Myaria.**

13	Mya arenaria Linn. (var.) <i>Mya acuta</i> Say.	N. England, N. Y., N. J.
13	cancellata Conrad.	Upper California.
14	truncata Lam. <i>M. ovalis</i> Turt. (young.)	Newfoundland.
14	Corbula contracta Say.	Rhode Island.
15	Pandora trilineata Say. <i>P. nasuta</i> Sowb.	New York, N. J.

Family **Osteodesmata.**

16	Osteodesma hyalina Conrad.	New York.
16	Cochlodesma Leana Conrad. <i>Anatina Leana</i> Conrad.	New York.
16	Periploma angulifera Phil.	Galveston.
16	argentaria Conrad.	California.

Page.	Name.	Locality.
17	Anatina papyracea Say.	United States.
17	Thracia Conradi Couth.	Coasts of N. England.
	<i>T. declivis</i> Conrad.	
17	myopsis Beck.	Greenland.
17	truncata Mighels.	Casco Bay.

Family **Mactracea.**

18	Lutraria canaliculata Say.	South Carolina.
18	lineata Say.	Georgia.
	<i>L. papyracea</i> ? Lam.	
19	Mactra lateralis Say.	New York.
	<i>Mulinia lateralis</i> Gray.	
19	ovalis Gould.	Massachusetts.
	<i>M. grandis</i> Desh.	
19	var. <i>M. similis</i> Gray.	Rhode Island.
19	similis Say.	South Carolina.
19	solidissima Chemn.	New York.
	<i>M. gigantea</i> Lam.	
19	Gnathodon cuneatus Gray.	Alabama.
	<i>Rangia Cyrenoides</i> Conrad.	
20	Mesodesma arctata Conrad.	Rhode Island.
21	Kellia rubra Turton.	Stonington, Ct.
	<i>Cardium rubrum</i> Mont.	
	<i>Amphidesma nucleolum</i> Lam.	
21	Amphidesma æquale Say.	South Carolina.
22	decisum Conrad.	Upper California.
	<i>A. roseum</i> ? Sowerby.	
22	Cumingia Californica Conrad.	Santa Barbara.
22	tellinoides Conrad.	Maine.
	<i>Mactra tellinoides</i> Conrad.	

Family **Lithophaga.**

22	Saxicava Californica Conrad.	California.
	<i>S. pholadis</i> Lam.	
22	pholadis Lam. (var.)	New York.
	<i>Bissomya pholadis</i> De Blain.	
	<i>S. distorta</i> Say.	
23	Sphænia Californica Conrad.	California.
23	Petricola cylindracea Desh.	California.
23	dactylus Sowerby.	New Jersey.
23	pholadiformis Lam.	New York.
	<i>P. fornicata</i> Say.	
23	Venerupis gigantea Desh.	California.
	<i>Saxidomus Nuttallii</i> Conrad.	
23	Petitii Desh.	California.

Family **Nymphacea.**

Page.	Name.	Locality.
23	Sanguinolaria Nuttallii Conrad.	California.
24	Psammobia Pacifica Conrad.	Columbia river.
25	Tellina alta Conrad.	California.
25	<i>alternata</i> Say.	Florida.
25	<i>Burneti</i> Brod.	Mazatlan.
	<i>Lucina cristata</i> Recluz.	
25	<i>calcareo</i> Chemn.	Greenland.
	<i>T. sordida</i> Phil.	
25	<i>Cayennensis</i> Lam.	Mexico.
	<i>T. constricta</i> Phil.	
	<i>Psammobia Cayennensis</i> Lam.	
	<i>T. intastriata</i> Say.	
25	<i>decora</i> Say.	East coast of Florida.
26	<i>dispar</i> Conrad.	California, Wahoo.
26	<i>Fabricii</i> Hanley.	Greenland.
	<i>T. fragilis</i> Fab.	
26	<i>fusca</i> Say.	New York.
	<i>Psammobia fusca</i> Say.	
	<i>Sanguinolaria fusca</i> Conrad.	
26	<i>inconspicua</i> Br. & Sowb.	Arctic Ocean.
26	<i>iris</i> Say.	New York.
27	<i>lateralis</i> Say.	Florida.
27	<i>nasuta</i> Conrad.	Columbia river.
28	<i>polita</i> Say.	South Carolina.
28	<i>proxima</i> Brown.	Massachusetts.
	<i>T. sordida</i> Couth.	
28	<i>rugosa</i> Born.	New California.
28	<i>secta</i> Conrad.	Upper California.
	<i>T. ligamentina</i> Desh.	
29	<i>tenera</i> Say.	New Bedford.
30	<i>Lucina Californica</i> Conrad.	San Diego.
30	<i>contracta</i> Say.	Rhode Island.
30	<i>corrugata</i> Desh.	California.
30	<i>Floridana</i> Conrad.	Tampa bay.
30	<i>Nuttallii</i> Conrad.	Upper California.
31	<i>Donax californica</i> Conrad.	Sta. Barbara.
31	<i>fossor</i> Say.	New York.
31	<i>variabilis</i> Say.	Georgia.

Family **Conchacea.**

32	Cyclas dubia Say.	Ohio.
32	<i>elegans</i> Adams.	Vermont.
32	<i>minor</i> Adams.	Vermont.

Page.	Name.	Locality.
32	Cyclas partumeia Say.	Ohio.
32	rhomboidea Say.	Vermont.
32	similis Say.	Ohio.
	<i>C. sulcata</i> Lam.	
32	staminea Conrad.	Missouri.
33	Cyrena Caroliniensis Lam.	South Carolina.
	<i>Cyclas Caroliniensis</i> Bosc.	
33	sordida Hanley.	North America.
34	Cyprina Islandica Lam.	B'ks of Newfoundland.
	<i>Venus bucardium</i> Born.	Rhode Island.
	<i>mercenaria</i> Pennant.	
34	Astarte Banksii Gray.	Greenland.
34	bilunulata Conrad.	Tampa bay.
34	castanea Say.	N. Y., Provincetown.
	<i>A. picca</i> var.	
	<i>procera</i> Totten.	
34	Danmoniensis Sowerby.	Maine.
35	difficilis.	Greenland.
35	lævis.	Greenland.
35	lactea Brod.	Grand Bank.
35	quadrans Gould.	Maine.
35	semisulcata Gray.	Greenland.
35	striata Leach.	Greenland.
	<i>Nicania striata</i> Leach.	
35	undata Gould.	Maine.
	<i>A. latuscula</i> Hanley.	
35	Cytherea convexa Say.	New York.
36	Crassatelloides Conrad.	California.
	(<i>Trigonella</i> Conrad.)	
36	var.	San Diego, Sta. Barbara.
36	Dione Linn. (var.)	California.
36	gigantea Lam.	Florida.
37	planulata Sowerby.	Mazatlan.
37	rosea Br.	San Blas.
37	squalida Sowerby.	California.
	<i>C. elegans</i> Koch.	
	<i>biradiata</i> Sowerby.	
38	Artemis gigantea Sowerby.	California.
38	Venus Californiensis Brod.	California.
38	cancellata Lam. (var.)	South Carolina.
	<i>V. elevata</i> Say.	
	<i>Cingenda</i> Dillwyn.	
39	fluctuosa Gould.	B'ks of Newfoundland.
40	gemma Totten.	New York.
40	gnidia Br.	San Blas.

Page.	Name.	Locality.
40	Venus grata Say.	West coast of Mexico.
	<i>V. discors</i> Sowerby.	
40	mercenaria Linn.	N. Y., N. J., Mass.
40	Mortoni Conrad.	Florida.
41	notata Say.	New York.
41	Nuttallii Conrad.	California.
42	tricolor Brod.	California.
42	undatella Sowerby.	California.

Family **Cardiacea.**

44	Cardium elatum Sowerby.	California.
44	var.	Gulf of California.
44	Grœnlandicum Chemn.	Greenland.
	<i>C. edentulum</i> Sowerby.	
	var. <i>Mactra radiata</i> Donovan.	North Atlantic.
	var. <i>Aphrodite columba</i> Lea.	B'ks of Newfoundland.
44	Icelandicum Chemn. (var.)	Massachusetts bay.
	<i>C. pubescens</i> Couth.	
	<i>arcticum</i> Sowerby.	
45	magnum Born.	Gulf of Mexico.
	<i>C. maculatum</i> Gemlin.	
	var. <i>C. ventricosum</i> Brug.	South Carolina.
45	Mortoni Conrad.	New York.
45	Nuttallii Conrad.	Upper California.
45	pinnulatum Conrad.	Rhode Island.
46	quadragenarium Conrad.	Upper California.
46	substriatum Conrad.	California.
47	Cardita borealis Conrad.	Rhode Island.
	<i>Venericardia borealis</i> Conrad.	
47	Floridana Conrad.	Tampa Bay.

Family **Arcacea.**

49	Arca Americana Gray.	Mobile.
49	formosa Sowerby.	Mexico.
50	incongrua Say.	South Carolina.
50	pexata Say.	New York.
50	ponderosa Say.	Coast of United States.
	<i>A. hemicardium</i> Koch.	
51	transversa Say.	New York.
51	trapezia Desh.	Mexico.
	<i>A. tobata</i> Reeve.	
52	Nucula antiqua Mighels (fossil).	Maine.
52	buccata Stp.	Greenland.
	<i>N. restrata</i> ? Lam.	

Page.	Name.	Locality.
53	Nucula Cascoensis <i>Mighels.</i>	Casco bay.
53	delphinodonta <i>Mighels.</i>	Casco bay.
53	lenticula <i>Möll.</i>	Greenland.
53	limatula <i>Say.</i>	Rhode Island.
53	macilenta <i>Stp.</i>	Greenland.
53	minuta <i>Gmelin.</i>	Massachusetts.
	<i>N. tenuisulcata</i> <i>Couth.</i>	
53	var.	Greenland.
53	myalis <i>Couth.</i>	Massachusetts bay.
53	navicularis <i>Couth.</i>	Maine.
53	Portlandica <i>Hitch.</i> (fossil).	Maine.
53	proxima <i>Say.</i>	Massachusetts bay.
53	sapotilla <i>Gould.</i>	Cape Cod.
53	tenuis <i>Turton, Gray.</i>	Maine, Greenland.
	<i>N. lucida</i> <i>Blanding.</i>	
53	Thraciæformis <i>Storer.</i>	Cape Cod.

Family **Naiades.**

54	Unio acutissimus <i>Lea.</i>	Alabama river.
54	alatus <i>Say.</i>	Fox river.
	<i>Symphynota alata</i> <i>Lea.</i>	Detroit riv., N. West'n
	var. <i>U. megaptera</i> <i>Raf.</i>	Territory, Ohio.
54	altilis <i>Conrad.</i>	Alabama river.
54	angustatus <i>Lea.</i>	Congaree river.
54	apiculatus <i>Say.</i>	New Orleans.
	var. <i>U. asper</i> <i>Lea.</i>	Alabama river.
55	arctior <i>Lea.</i>	Ohio river.
	<i>U. dilatatus?</i> <i>Raf.</i>	
55	atrocostatus <i>Lea.</i>	Alabama.
55	biangulatus <i>Lea.</i>	Tennessee.
55	Blandingianus <i>Lea.</i>	Florida.
55	Boydianus <i>Lea.</i>	New York.
55	bullatus <i>Raf.</i>	Ohio.
	<i>U. pustulosus</i> <i>Lea.</i>	
	var. <i>U. Dorfeuillanus</i> <i>Lea.</i>	
	<i>Schoolcraftensis</i> <i>Lea.</i>	
	<i>prasinus</i> <i>Conrad.</i>	
55	cælatius <i>Conrad.</i>	Tennessee.
55	callosus <i>Lea.</i>	Ohio canal.
55	camptodon <i>Say.</i>	New Orleans.
55	capax <i>Green.</i>	Louisiana.
	<i>U. globosus</i> <i>Lea.</i>	
55	Capsæformis <i>Lea.</i>	Cumberland river.

Page.	Name.	Locality.
56	Unio carbonarius Lea.	Medellin river.
	<i>U. pliciferus</i> Lea.	
	var. <i>U. plexus</i> Conrad.	Mexico.
	<i>semigranosa</i> Busch.	
56	cardium Raf.	Ohio river.
	<i>U. occidentis</i> Lea.	
	var. <i>U. ventricosus</i> Barnes, Say.	
	<i>subovatus</i> Lea.	
56	cariosus Say.	Passaic river.
	<i>U. ovata</i> Valenc.	
	var. <i>U. luteolus</i> Lam.	Hudson river & Conn.
56	castaneus Lea.	Alabama river.
56	cerinus Conrad.	Louisiana.
56	cicatricosus Say.	Ohio river.
	<i>U. varicosus</i> Lea.	
56	Claibornensis Lea.	Alabama.
56	clavus Lam.	Wabash river.
	<i>U. Modioliformis</i> Say.	
	var. <i>U. scaleniis</i> Raf.	Ohio river.
	<i>cuneatus</i> Raf.	
	<i>patulus</i> Lea.	
56	coccineus Lea.	Mahoning river.
	<i>U. rubra?</i> Raf.	
	var. <i>U. catillus</i> Conrad.	Ohio river.
	<i>Gouldianus?</i> Ward.	
56	collinus Conrad.	N. river, Va.
56	complanatus Soland.	Maryland.
	<i>Mya complanata</i> Soland.	
	var. <i>U. violaceus</i> Spengler.	New Jersey.
	<i>purpureus</i> Say.	Yadkin river.
	<i>varisulcata</i> Lam.	Lake Champlain.
	<i>coarctata</i> Lam.	Virginia.
	<i>purpurascens</i> Lam.	New York.
	<i>rhombula</i> Lam.	Hudson river.
	<i>carinifera</i> Lam.	Connecticut.
	<i>Georgina</i> Lam.	Lake George.
	<i>glabrata</i> Lam.	Massachusetts.
	<i>sulcidens</i> Lam.	Connecticut.
	<i>fluvialilis</i> Green.	Pennsylvania.
	<i>Mya rigida</i> Wood.	Rhode Island.
57	compressus Lea.	New York.
	<i>Symphynota compressa</i> Lea.	
57	confertus Lea.	Santee canal, S. C.
57	Congaræus Lea.	Congaree river.

Page.	Name.	Locality.
57	Unio Conradius Lea.	Tennessee.
	var.	Flint river.
57	constrictus Conrad.	Virginia.
57	Cooperianus Lea.	Ohio river.
	<i>U. striatus</i> Raf., Anthony.	
	var. <i>Obovaria pachostea</i> Raf., Fer.	Kentucky.
57	cor Conrad.	Elk river.
	<i>U. mytiloides?</i> Raf. (young).	
57	cordatus Raf.	Cumberland river.
	<i>U. undatus</i> Barnes.	
	var. <i>U. trigonus</i> Lea.	
	<i>undulatus</i> Desh.	
57	costatus Raf.	Ohio river, Tennessee.
	<i>U. undulatus</i> Barnes.	
57	crassidens Lam.	Ohio river.
	<i>U. cuneatus</i> Barnes.	
	var. <i>U. niger</i> Raf.	Ohio river.
	<i>gibber</i> Lea.	Tennessee.
57	crassus Say.	Ohio river.
	<i>U. ellipticus</i> Barnes.	
	var. <i>U. ellipsarius</i> Raf.	
	<i>ligamentina</i> Lam.	
	<i>orbiculatus</i> Hild.	Scioto river.
	<i>Mya gravis</i> Wood.	Cincinnati.
	<i>U. cyclips</i> Raf.	Mississippi.
	<i>abruptus</i> Say.	
58	cuneolus Lea.	Holston river.
58	cyлиндricus Say.	Wabash river.
	var. <i>U. naviformis</i> Lam.	Ohio river.
	<i>solenoides?</i> Raf.	Muskingum river.
58	cyphius Raf.	Ohio river.
	<i>U. Esopus</i> Green.	
	var. <i>Obliquaria cyphia</i> Raf.	Falls of Ohio river.
58	decisus Lea.	Alabama river.
58	declivis Say.	Bayou Teche.
	var. <i>U. geometricus</i> Lea.	Louisiana.
58	delumbis Conrad.	Cooper river, S. C.
	<i>U. modioliformis</i> Lea.	
58	dilatatus Raf.	Upper Missouri.
	<i>U. gibbosus</i> Barnes.	
	var. <i>U. mucronatus</i> Barnes.	Ohio river.
	<i>nasuta</i> Lam.	Tennessee.
58	dolabræformis Lea.	Altamaha river.
58	dromas Lea.	Harpeth river.
58	var.	Elk river.

Page.	Name.	Locality.
58	Unio Edgarianus <i>Lea.</i>	Holston river.
59	exoultus <i>Conrad.</i>	New Orleans.
59	fasciatus <i>Raf.</i>	Scioto river, Kentucky.
	<i>U. carinatus</i> <i>Barnes.</i>	
59	fasciolaris <i>Raf.</i>	Ohio river.
	<i>U. phascolus</i> <i>Hild.</i>	
	var. <i>U. planulatus</i> <i>Lea.</i>	Wabash river.
	<i>camelus</i> <i>Lea.</i>	
	<i>cuneatus</i> <i>Hild.</i>	
59	fasciolus <i>Raf.</i>	Ohio river.
	<i>U. multiradiatus</i> <i>Lea.</i>	
	var. <i>U. ligamentina</i> <i>Desh.</i>	
59	Fisherianus <i>Lea.</i>	Chester river.
59	flavus <i>Raf.</i>	Kentucky, Ohio river.
	<i>U. rubiginosus</i> <i>Lea.</i>	
59	flexuosus <i>Raf.</i>	Ohio river.
	<i>U. foliatus</i> <i>Hild.</i>	
59	folliculatus <i>Lea.</i>	Savannah river.
59	fragilis <i>Raf.</i>	Detroit river.
	<i>U. gracilis</i> <i>Barnes.</i>	
	var. <i>U. fragilis</i> <i>Swains.</i>	Fox river.
	<i>Symphynota gracilis</i> <i>Lea.</i>	Ohio river.
59	fragosus <i>Conrad.</i>	Scioto river.
59	fulvus <i>Lea.</i>	South Carolina.
	<i>U. icterinus</i> <i>Conrad.</i>	
59	gibbosus <i>Raf.</i>	Ohio river.
	var. <i>U. torulosus</i> <i>Raf.</i>	Scioto river.
	<i>perplexus</i> <i>Lea.</i>	Wabash river.
60	glans <i>Lea.</i>	Ohio river.
60	graniferus <i>Lea.</i>	Ohio river.
60	Griffithianus <i>Lea.</i>	South Carolina.
60	Haysianus <i>Lea.</i>	Cumberland river.
60	Hembeli <i>Conrad.</i>	Louisiana.
60	heros <i>Say.</i>	Fox river.
	var. <i>U. multiplicatus</i> <i>Lea.</i>	Tennessee river.
	<i>undulatus</i> <i>Say.</i>	Wabash river.
60	heterodon <i>Lea.</i>	Schuylkill river.
60	Hildrethianus <i>Lea.</i>	Ohio river.
	<i>Alasmodonta ambigua</i> <i>Say.</i>	
60	Hopetonensis <i>Lea.</i>	Darien, Georgia.
60	Hydianus <i>Lea.</i>	Teche river, La.
60	incrassatus <i>Lea.</i>	Chattahoochee river.
60	inflatus <i>Lea.</i>	Alabama river.
	<i>Symphynota inflata</i> <i>Lea.</i>	
	var. <i>U. Alabamensis</i> <i>Conrad.</i>	

Page.	Name.	Locality.
60	Unio intermedius Conrad.	Nolachucky riv., Tenn.
60	interruptus Raf.	Elk river, Tenn.
	<i>U. brevidens</i> Lea.	
	var.	Ohio river.
60	Jayensis Lea.	Florida.
60	jejunus Lea.	Roanoke river.
60	Kirtlandianus Lea.	Mahoning river.
60	lanceolatus Lea.	Tar river, N. C.
60	lapillus Say.	Detroit & Ohio rivers.
	<i>U. fabalis</i> Lea.	
61	lata Raf.	Ohio river.
	<i>Anodonta lata</i> Raf.	
	var. <i>U. dehiscens</i> Say.	Wabash river.
	<i>oriens</i> Lea.	
61	latiradiatus Conrad.	Nashville, Tenn., Har-
	<i>U. interruptus</i> Lea.	peth river.
61	Lecontianus Lea.	Conochee river, Ga.
61	lenior Lea.	Stone's river, Tenn.
61	leptodon Raf.	Ohio river.
	<i>U. tenuissimus</i> Lea.	
	var. <i>U. planus</i> Barnes.	Wisconsin.
	<i>velum</i> Say.	Scioto river.
	<i>Anodonta purpurascens</i> Swains.	
61	lienosus Conrad.	Alabama.
61	lineolatus Raf.	Ohio river.
	<i>U. securis</i> Lea.	
	var. <i>U. depressus</i> Raf.	
61	luteolus Lam.	Mohawk river.
	var. <i>U. siliquoides</i> Barnes.	Delaware river.
	<i>inflatus</i> Barnes.	Lake Erie.
62	Menkianus Lea.	Harpeth river.
62	metallicus Say.	Lake Chalco, Mexico.
	<i>U. cuprinus</i> Lea.	
62	metanevver Raf.	Ohio river.
	<i>U. metanevverus</i> Conrad.	
	var. <i>U. nodosus</i> Barnes.	Wabash & Scioto rivs.
62	monodontus Say.	Falls of Ohio.
	<i>U. soleniformis</i> Lea.	
62	Muhlfeldianus Lea.	Tennessee.
62	mytiloides Raf.	Ohio river.
	<i>U. pyramidatus</i> Lea.	
	var. <i>U. cardiacea</i> Say.	
62	Nashvillianus Lea.	Tennessee.
62	nasutus Say.	New York.
	var. <i>U. rostratus</i> Val.	

Page.	Name.	Locality.
62	Unio nervosus Raf.	Ohio.
	<i>U. Donaciformis</i> Lea.	
	var. <i>U. zigzag</i> Lea.	Falls of Ohio.
62	nexus Say.	Cumberland river.
	<i>U. Arcaformis</i> Lea.	
62	Nicklinianus Lea.	Mexico.
62	nitens Lea.	Long creek, Tenn.
62	nodulatus Raf.	Ohio river.
	<i>U. pustulatus</i> Lea.	
62	Novi-Eboraci Lea.	New York.
63	obesus Lea.	York river, Va.
63	obliquatus Raf.	Ohio.
	var. <i>U. ridibundis</i> Say.	Kentucky.
	<i>sulcatus</i> Lea.	
63	obliquus Lam.	Ohio river.
	<i>U. obovalis</i> Raf.	
	var. <i>U. ebenus</i> Lea.	
63	Ohioensis Raf.	Ohio river.
	<i>Anodonta Ohiensis</i> Raf.	
	var. <i>U. lævissimus</i> Lea.	
63	ochraceus Say.	Passaic river.
	var. <i>Symphynota ochracea</i> Lea.	New Jersey.
	<i>Mytilus fluviatilis</i> Gmelin.	Schuylkill river.
63	olivarius Raf.	Ohio river, Kentucky.
	var. <i>U. ellipsis</i> Lea.	Tennessee.
63	ovalis Flem.	Lake Champlain.
	<i>U. nodulosus</i> Lam., &c. &c.	
63	ovatus Say.	Ohio river.
	<i>U. ventricosus</i> Desh.	
	var. <i>U. subovatus</i> Desh.	
	<i>occidens</i> Desh.	
63	oviformis Conrad.	Tennessee.
63	paludicolor Gould.	Everglades, Fla.
63	papyracea Gould.	Miami river.
63	parvus Barnes.	Ohio and Fox rivers.
64	paulus Lea.	Georgia.
64	pectorosus Conrad.	Harpeth river.
	<i>U. perdix</i> Lea.	
64	personatus Say.	Wabash river.
	var. <i>U. capillaris</i> Lea.	Cumberland river.
	<i>pileus</i> Lea.	
64	pictus Lea.	Harpeth river.
64	pilaris Lea.	Tennessee.
64	planilateris Conrad.	Yadkin river.
64	plenus Lea.	Ohio river.

Page.	Name.	Locality.
64	Unio plicatus Say.	Ohio.
	<i>U. Peruviana</i> Lam.	
	var. <i>U. rariplicata</i> Lam.	St. Peter's river.
	<i>Dombeyanus</i> Valenc.	Ohio.
	<i>undulata</i> Desh.	
	<i>multiplicata</i> Desh.	
64	politus Say.	Ohio.
	<i>U. subrotundus</i> Lea.	
64	pullus Conrad.	Sawney's creek.
65	purpuratus Lam.	Mississippi.
	<i>U. ater</i> Lea.	
	var. <i>U. lugubris</i> Say.	Bayou Teche.
	<i>Poulsoni</i> ? Conrad.	North Carolina.
	<i>ventricosus</i> Soland.	
65	purpuratus Say.	Mexico.
	<i>U. Medellinus</i> Lea.	
65	quadrulus Raf.	Ohio river.
	<i>U. asperrimus</i> Lea.	
	var. <i>Obliquaria quadrula</i> Raf.	
	<i>U. rugosus</i> Barnes.	
	<i>lachrymosus</i> Lea.	
65	radiatus Lam.	Virginia.
	<i>U. Virginiana</i> Lam.	
	var. <i>Mya radiata</i> Gmelin.	Wisconsin.
	<i>oblongata</i> Wood.	Potomac.
65	Rangianus Lea.	Ohio river.
65	Ravenelianus Lea.	French Broad river.
	<i>U. rudis</i> Conrad.	
65	rectus Lam.	Ohio river.
	<i>U. latissima</i> Raf.	
	var. <i>U. pralongus</i> Barnes.	Lake Erie.
	<i>Sageri</i> Conrad.	Detroit river.
65	reflexus Raf.	Alabama & Ohio rivers.
	<i>U. cornutus</i> Barnes.	
65	retusus Lam.	Ohio river.
	var. <i>U. torsa</i> Raf.	Tennessee.
	<i>obtusa</i> Say, Desh.	Wabash river.
65	Roanokensis Lea.	Roanoke river.
65	rotundatus Lam.	Bayou Teche.
	<i>U. subglobosus</i> Lea.	
	var. <i>U. suborbiculata</i> Lam.	Louisiana.
	<i>glebulus</i> Say.	
66	Sayi Ward.	Kentucky.
	var. <i>U. de clivis</i> Conrad.	Ohio, Alabama.
66	Shepardianus Lea.	Hopetou, Ga., Altamaha riv.

Page.	Name.	Locality.
66	Unio simus Lea.	Tennessee.
66	Sloatianus Lea.	Chattahoochie river.
66	solidus Lea.	Mahoning river.
66	Sowerbianus Lea.	Tenn., Cumberland river.
66	spinosus Lea.	Altamaha river, Hope- ton and Darien, Ga.
66	splendidus Lea.	Altamaha river.
66	stapes Lea.	Alabama river.
66	stegarius Raf.	Scioto and Ohio rivers.
	<i>U. irroratus</i> Lea.	
66	subinflatus Conrad.	Savannah river.
66	subplanus Conrad.	Virginia.
66	subrostratus Say.	New York.
	<i>U. iris</i> Lea.	
	var. <i>U. nebulosus</i> Conrad.	Alabama.
67	subrotundus Raf.	Ohio river.
	<i>U. circulus</i> Lea.	
	var. <i>U. lens</i> Lea.	Tennessee.
67	subtentus Say.	Tennessee, Alabama.
67	Tampicoensis Lea.	Tampico river.
67	Tappanianus Lea.	Juniata river.
	<i>U. viridis</i> Conrad.	
67	tenebrosus Conrad.	Virginia.
	<i>U. tenerus</i> Raf.	
67	teres Raf.	Mississippi & Wabash rivers.
	<i>U. anodontoides</i> Lea.	
67	tetralasmus Say.	Bayou St. John.
67	trapezoides Lea.	Lake St. Joseph.
	var. <i>U. interruptus</i> Say.	Louisiana.
67	triqueter Raf.	Falls of Ohio.
	<i>U. triangularis</i> Barnes.	
	var. <i>U. cuneatus</i> Swains.	
	<i>formosus</i> Lea.	
67	Troostensis Lea.	Cumberland river.
	<i>U. trabalis</i> Conrad.	
67	truncatus Raf.	Wabash river, Ohio.
	<i>U. elegans</i> Lea.	
67	tuberculatus Raf.	Harpeth river.
	<i>U. verrucosus</i> Barnes.	
	var. <i>U. tuberculosa</i> Val.	Ohio river.
67	turgidus Lea.	New Orleans.
	<i>U. Mortoni</i> Conrad.	
67	Vanuxemensis Lea.	Cumberland river.
68	venustus Lea.	Potosi, Missouri.

Page.	Name.	Locality.
68	Unio verrucosus Raf.	Ohio river.
	<i>U. tuberculatus</i> Barnes.	
68	Watereensis Lea.	Wateree canal.
	<i>U. Raveneli</i> Conrad.	
68	Zieglerianus Lea.	Cumberland river.
68	Margaritana arcula Lea.	Altamaha river.
68	calceola Lea.	Ohio.
	<i>Unio calceolus</i> Lea.	
68	complanata Barnes.	Ohio river.
	<i>Symphynota complanata</i> Lea.	
	var. <i>Alasmodonta complanata</i> .	Tennessee.
68	confragosa Say.	Illinois.
	<i>Alasmodonta confragosa</i> Say.	
68	costata Raf.	Ohio.
	<i>Alasmodonta rugosa</i> Barnes.	
	var. <i>Alasmodonta abducta</i> Say.	Wabash river.
68	Curreyana Lea.	Stone's river.
68	deltoidea Lea.	Scioto river.
68	margaritifera Linn.	Hudson river.
	<i>Alasmodonta arcuata</i> Barnes.	
69	marginata Say.	New York.
	<i>Alasmodonta marginata</i> Say.	
	var. <i>Alasmodonta truncata</i> Say.	New Jersey.
	<i>Unio cariosa</i> Lam. var. ?	Lake Erie.
	<i>varicosa</i> Lam.	Schuylkill river.
	<i>calceolus</i> Say.	
	<i>Mya regulosa</i> Wood.	Ohio river.
69	Raveneliana Lea.	Swananoë river.
69	undulata Say.	New York.
	<i>Alasmodonta undulata</i> Say.	
	var. <i>Alasmodonta sculptilis</i> Say.	Virginia.
	<i>Mya undulata</i> Wood.	
	<i>Unio hians</i> Valenc.	
	<i>glabratus</i> Sowerby.	New Jersey.
71	Anodonta Benedictensis Lea.	Lake Champlain.
	<i>Symphynota Benedictensis</i> Lea.	
71	Couperiana Lea.	Hopeton Ga.
71	cylindracea Lea.	Medellin river.
71	decora Lea.	Chilicothe.
71	edentula Say.	Ohio.
	<i>Alasmodonta edentula</i> Say.	
	var. <i>Alasmodonta arcolatus</i> Swain.	Wabash river.
71	excurvata De Kay.	Passaic river.
	<i>A. fluviatilis</i> ? Lea.	
71	ferruginea Lea.	Indiana.
71	Ferussaciana Lea.	Cincinnati.

Page.	Name.	Locality.
72	Anodonta fluviatilis <i>Lea.</i>	Hudson river.
	<i>Mytilus fluviatilis</i> Sol.	
	var. <i>Mytilus illitus</i> Sol.	New Jersey.
	<i>A. cataracta</i> Say.	New York.
	<i>marginata</i> Say.	Massachusetts.
	<i>implicata</i> Say.	Connecticut.
	<i>teres</i> Conrad.	South Carolina.
72	Footiana <i>Lea.</i>	Ohio.
72	<i>gibbosa</i> Say.	South Carolina.
72	<i>gigantea</i> <i>Lea.</i>	Port Gibson.
72	<i>glauca</i> <i>Valenc.</i>	Acapulco.
72	<i>grandis</i> Say.	Fox river.
	<i>A. corpulenta</i> Cooper.	
72	<i>imbecilis</i> Say.	Wabash river and Cin-
	<i>A. incerta</i> <i>Lea.</i>	cinnati.
72	Newtonensis <i>Lea.</i>	New Jersey.
72	Nuttalliana <i>Lea.</i>	Wahlamat river.
72	Oregonensis <i>Lea.</i>	Wahlamat river.
72	<i>ovata</i> <i>Lea.</i>	Marietta.
72	Pepiniana <i>Lea.</i>	Lake Pepin.
73	<i>salmonia</i> <i>Lea.</i>	Poland, Ohio.
73	Stewartiana <i>Lea.</i>	Louisiana.
73	<i>subcylindracea</i> <i>Lea.</i>	Oak Orchard cr., N. Y.
73	<i>suborbiculata</i> Say.	Illinois.
	var. <i>A. rotundatus</i> Swains.	Alton, Illinois.
73	<i>undulata</i> Say.	New York.
	<i>A. rugosus</i> Swains.	
	var. <i>A. Pennsylvanica</i> Lam.	Pennsylvania.
73	Wahlamatensis <i>Lea.</i>	Wahlamat river.
73	Wardiana <i>Lea.</i>	Ohio.
	<i>A. virgata</i> Conrad.	

Family **Chamacea.**

74	Chama arcinella <i>Linn.</i>	Florida.
75	<i>exogyra</i> Conrad.	Upper California.
75	<i>producta</i> Brod.	Mexico.

Family **Mytilacea.**

76	Modiola capax Conrad.	California.
76	<i>cicercula</i> Möll.	Greenland.
	<i>Mytilus decussatus</i> Mont.	
76	discors <i>Linn.</i>	Greenland.
	<i>Mytilus discors</i> <i>Linn.</i>	
	<i>laevigata</i> Gray.	
	<i>Modiola discrepans</i> Lam.	

Page.	Name.	Locality.
76	Modiola dubia.	Greenland.
76	<i>glandula Totten.</i>	Massachusetts.
76	<i>modiolus Linn. (var.)</i>	United States.
	<i>Modiola papuana Lam.</i>	
	<i>Mytilus modiolus Linn.</i>	
	<i>barbatus Linn.</i>	
76	<i>nexa Gould.</i>	Massachusetts.
76	<i>pectinula Gould.</i>	Massachusetts.
77	<i>plicatula Lam.</i>	New York.
	<i>Mytilus demissus Wood.</i>	
	var. <i>Modiola semicostata Conrad.</i>	Massachusetts.
77	<i>tulipa Lam.</i>	United States.
77	Mytilus bifurcatus Conrad.	California.
77	<i>Californianus Conrad.</i>	California.
77	<i>cubitus Say.</i>	Charleston, S. Ca.
77	<i>hamatus Say.</i>	Mobile.
77	<i>leucophantus Conrad.</i>	Georgia.
78	Mytilimeria Nuttallii Conrad.	California.
78	Pinna muricata Linn.	South Carolina.
79	<i>saccata Linn. (var.)</i>	California.
	<i>P. Nuttallii Conrad.</i>	

ORDER UNIMUSCULOSA.

Family Pectinacea.

83	Lima sulcata Leach.	Greenland.
83	Pecten circularis Sowerby.	California.
84	<i>dislocatus Say.</i>	Florida.
85	<i>Islandicus Chemn. (var.)</i>	Greenland.
	var. <i>P. Pealeii Conrad.</i>	Massachusetts.
	<i>Cinnabarina Dillw.</i>	B'ks of Newfoundland.
85	<i>irradians Lam.</i>	New York, N. Jersey.
	<i>P. turgidus Sowerby.</i>	
	var. <i>P. concentricus Say.</i>	Connecticut.
85	<i>lati-auratus Conrad.</i>	California.
85	Magellanicus Gmelin.	Newfoundland, N. J.,
	<i>P. tenuicostata Mighels.</i>	Maine.
85	<i>mesotimeris Conrad.</i>	California.
88	Hinnites gigantea Gray (var.)	California.
	<i>Ostrea gigantea Wood.</i>	
	var. <i>Hinnita Poulsoni Conrad.</i>	
89	Spondylus longitudinalis Lam.	America.
89	<i>pictorium Chemn.</i>	West Mexico.
89	Exogyra costata.	New Jersey.

Family **Ostracea.**

Page.	Name.	Locality.
89	Ostræa borealis Lam.	N. Y., Mass., Conn.
	var. <i>Ostrea Canadensis</i> Brug.	New Jersey.
91	Virginica Gmelin.	Maryland, Virginia.
	<i>Ostrea Virginiana</i> List.	
91	Gryphæa convexa Say (fossil).	New Jersey.
92	Anomia aculeata Müll.	New York.
92	ephippium Linn.	New York.

CLASS BRACHIOPODA.

Family **Tendinosa.**

92	Terebratula Californiana Kust.	California.
92	caput-serpentis Lam.	Maine.
	<i>T. costata</i> Lowe.	
	<i>aurita</i> Flem.	
	<i>pubescens</i> Müll.	
93	psittacea Lam.	Newfoundland.
93	septentrionalis Couth.	Maine.

CLASS GASTEROPODA.

ORDER **HYDROBRANCHIATA.**

95	Eolis Bostoniensis Couth.	Boston.
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ORDER **CIRRHOBRANCHIATA.**

96	Dentalium annulatum Mighels.	Maine.
96	entalis Linn. (var.)	Maine.
96	dentalis Linn.	Boston.
	<i>D. attenuatum</i> Say.	

ORDER **CYCLOBRANCHIATA.**

97	Chiton albolineatus Brod.	Mazatlan.
97	apiculatus Say.	New York.
	<i>C. pectinatus</i> Gould, p. 98.	
97	armatus Nutt.	Upper California.
	<i>C. muscosus</i> Gould.	
97	cinereus Linn. (var.)	Greenland.
	<i>C. minimus</i> Chemn.	
	<i>cimex</i> Chemn.	
98	Emersonianus Couth.	Massachusetts bay.
	var. <i>C. vestitus</i> Sowerby.	Arctic ocean.

Page.	Name.	Locality.
98	Chiton fulminatus <i>Couth.</i>	Massachusetts bay.
	<i>C. lavigatus</i> <i>Flem.</i>	
	var. <i>C. latus</i> <i>Lowe.</i>	Northern Ocean.
98	lævigatus <i>Sowerby.</i>	California.
98	Magdalenensis <i>Hinds.</i>	California.
99	scaber <i>Reeve.</i>	Monterey, California.
100	Patella candida <i>Couth.</i>	Maine.
100	cerea <i>Möller.</i>	Greenland.
101	Patella diaphana <i>Nutt.</i>	Upper California.
101	fenestrata <i>Nutt.</i>	Upper California.
101	lævigata <i>Nutt.</i>	Upper California.
101	leucophæa <i>Gmelin.</i>	Upper California.
101	mammillata <i>Nutt.</i>	Upper California.
101	Mazatlandica <i>Sowerby.</i>	Mazatlan.
101	monticolor <i>Nutt.</i>	Upper California.
101	Oregana <i>Nutt.</i>	Upper California, Columbia river.
102	pileata <i>Nutt.</i>	Upper California.
102	rubella <i>Fabr.</i>	Greenland.
102	spectrum <i>Nutt.</i>	Upper California.
102	strigillata <i>Nutt.</i>	Upper California.
102	tessellata <i>Nutt.</i>	Upper California.
102	umbonata <i>Nutt.</i>	Upper California.

ORDER CERVICOBRANCHIATA.

Family Fissuracea.

103	Lottia alveus <i>Conrad.</i>	New York.
103	scabra <i>Nutt.</i>	Upper California.
103	testudinalis <i>Müll.</i>	Mass., Greenland.
	<i>Patella testudinalis</i> <i>Müll.</i>	
105	Fissurella alternata <i>Say.</i>	Maryland.
105	crenulata <i>Sowerby.</i>	Up. Calif., Monterey.
107	Cemoria Noachina <i>Linn.</i>	Maine, Greenland.
	<i>Patella Noachina</i> <i>Linn.</i>	
	<i>Fissurella Noachina</i> <i>Sowerby.</i>	

Family Capulacea.

107	Crepidula exuviala <i>Nutt.</i>	Upper California.
107	fornicata <i>Linn.</i>	New York.
107	glauca <i>Say.</i>	Rhode Island.
107	Navicelloides <i>Nutt.</i>	Upper California.
107	onyx <i>Sowerby.</i>	Upper California.
	<i>C. rugosa</i> <i>Nutt.</i>	
107	plana <i>Say.</i>	New York.
108	Calyptræa striata <i>Say.</i>	Rhode Island.

Family **Macrostromata.**

Page.	Name.	Locality.
109	Sigaretus perspectivus Say.	South Carolina.
109	Haliotis Californiensis Swains.	California.
110	<i>corrugata</i> Gray.	California.
110	Cracherodii Leach.	California.
	<i>H. glaber</i> Schub.	
110	<i>splendens</i> Reeve.	California.

Family **Tubispiracea.**

111	Skenea serpuloides Flem.	Boston harbor.
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ORDER **PLEUROBRANCHIATA.**Family **Bullacea.**

112	Bulla canaliculata Say.	New Bedford.
113	<i>debilis</i> Gould.	Massachusetts bay.
113	<i>Gouldii</i> Couth.	Boston bay.
113	<i>insculpta</i> Totten.	New York.
113	<i>obstricta</i> Gould.	New Bedford.
113	<i>oryza</i> Totten.	New Bedford.
113	<i>triticea</i> Couth.	Boston Bay.

ORDER **PULMOBRANCHIATA.**Family **Colimacea.**

119	Helix albolabris Say.	N. Y., Georgia, Ohio.
	<i>Tridopsis albolabris</i> Beck.	
119	<i>alternata</i> Say.	New York.
	<i>H. scabra</i> Lam.	
	var. <i>H. radiata</i> Gmelin.	Ohio.
	<i>Patula alternata</i> Held.	Tennessee.
	<i>Euryomphala alternata</i> Beck.	Massachusetts.
120	<i>appressa</i> Say.	New York.
	<i>Tridopsis appressa</i> Beck.	
	var. <i>Helicodonta linguifera</i> Fer.	Missouri.
120	<i>arborea</i> Say.	New York.
	<i>H. Ottonis</i> Pfr.	
	var. <i>Helicella arborea</i> Beck.	
121	<i>areolata</i> Sowerby.	Columbia river.
122	<i>auriculata</i> Say.	Florida.
	<i>Polygyra auriculata</i> Say.	
	var. <i>Helicodonta auriculata</i> Fer.	St. Augustine.
	<i>Daedalochila auriculata</i> Beck.	

Page.	Name.	Locality.
122	Helix avara Say.	Florida.
	<i>Polygyra avara</i> Say.	
	var. <i>Helicodonta avara</i> Fer.	Louisiana.
	<i>H. Sayi</i> Wood.	
	<i>auriculata</i> Binney.	
	<i>Stenotrema avara</i> Raf.	
	<i>Dacdalochila avara</i> Beck.	
123	Berlanderiana Moric.	Texas.
	<i>H. virginialis</i> Jan.	
125	Buffoniana Pfr.	Mexico.
125	Californiensis Lea.	Columbia riv., Califa.
	<i>H. Nickliniana</i> Lea.	
127	Caroliniensis Lea.	New York.
	<i>H. palliata</i> ? Say.	
128	cellaria Müll.	United States.
	<i>H. glaphyra</i> ? Say.	
128	cereolus Mühlf.	Florida.
	<i>H. septemvoluta</i> Fer.	
	var. <i>H. planorbula</i> Lam.	
	<i>polygyrata</i> Binney.	
	<i>Polygyra septemvoluta</i> Say.	
	<i>planorbula</i> Beck.	
129	chersina Say.	Massachusetts.
	<i>H. fulva</i> Drap.	
131	clausa Raf.	Tennessee.
	<i>Helicodonta clausa</i> Fer.	
	var. <i>Helix inflecta</i> Say.	Missouri.
	<i>Tridopsis clausa</i> Raf.	Carolina.
	<i>inflecta</i> Beck.	
	<i>Gonostoma clausum</i> Held.	
131	coactiliata Fer.	Tabasco.
	<i>H. fasciata</i> Nyst.	
132	Columbiana Lea.	California.
132	convexa Raf.	Ohio.
	<i>H. hirsuta</i> Fer. var. a.	
	<i>monodon</i> Rack., Binney.	Pennsylvania.
	<i>fraterna</i> Say.	
	<i>H. Leaii</i> Ward.	
	<i>Stenotrema convexa</i> Raf.	
	<i>Tridopsis convexa</i> Beck.	
	<i>fraterna</i> Beck.	
134	Cumberlandiana Lea.	Tennessee.
135	demissa Binney.	Alabama.
135	dentifera Binney.	Vermont.

Page.	Name.	Locality.
133	Helix diodonta Say. <i>H. Sayi</i> Binney.	Vermont.
137	Edgariana Lea. <i>Carocollu Edgariana</i> Lea.	Tennessee.
137	elevata Say. <i>Helicodonta Knoxvilleana</i> F. var. <i>Mesodon helicinum</i> Raf. <i>Tridopsis elevata</i> Beck.	Ohio. Tennessee.
138	fallax Say. var. <i>H. tridentata</i> Binney.	New York.
139	fidelis Gray. var. <i>H. Nuttalliana</i> Lea.	Columbia river. Oregon.
140	fuliginosa Griff. <i>H. capillacea</i> Pfr.	Ohio.
141	fulva Drap. (var.) <i>H. trochilus</i> Dillw. <i>trochilus</i> Flem. <i>nitidula</i> Alten. <i>chersina</i> Say. <i>Mandalisci</i> Bivon. <i>Conulus fulvus</i> Fitz. <i>Petasia trochiformis</i> Beck. <i>Polita fulva</i> Held. <i>H. Mortoni</i> Jeffr. <i>Alderi</i> Gray.	Massachusetts.
143	griseola Pfr. <i>H. cicerula</i> Fer. var. <i>H. splendidula</i> Ant. <i>Bradybaena pisum</i> Beck.	Mexico. Vera Cruz.
143	gularis Say. <i>Helicodonta gularis</i> Fer. var. <i>Sayda? gularis</i> Beck. <i>Helix suppressa</i> Say.	Ohio.
144	Hindsii Pfr.	Mexico.
144	hirsuta Say. <i>Helicodonta hirsuta</i> Fer. var. <i>Helix fraterna</i> Wood. <i>sinuata</i> γ Gmelin. <i>Helix isognomostomos</i> Gmelin. <i>Tridopsis hirsuta</i> Beck. <i>Helix stenotrema</i> Fer.	New York. Pennsylvania. Massachusetts. Rhode Island. Connecticut. Indiana.
146	indentata Say.	New Jersey.
147	inornata Say.	South Carolina.
147	interna Say. <i>H. pomum-Adami</i> Green.	Ohio.

Page.	Name.	Locality.
147	Helix intertexta Binney.	Ohio.
148	labyrinthica Say. <i>Helicodonta labyrinthica</i> Fer.	New York.
149	lævigata Raf. <i>Helix inornata</i> Binney. var. <i>Helicella lævigata</i> Fer. <i>Mesomphix lævigata</i> Raf.	Ohio.
151	ligera Say. <i>H. Wardiana</i> Lea. var. <i>H. Rafinesquea</i> Fer.	Ohio. Kentucky.
151	lineata Say. <i>Helicella lineata</i> Fer. var. <i>Euryomphala lineata</i> Beck.	New York. Massachusetts.
152	lucubrata Say.	Mexico.
153	major Binney. var. <i>H. albolabris</i> Fer.	Georgia.
155	minuscule Binney.	Ohio.
155	Mobiliana Lea.	Mobile.
155	multidentata Gould.	Vermont.
155	multilineata Say. <i>Helicogena multilineata</i> Fer. var. <i>Euryeratera multilineata</i> Beck.	Ohio.
157	nemoralis Linn. (var.) <i>H. subglobosa</i> Binney.	Vermont.
159	obstricta Say. var. <i>H. denotata</i> Fer. <i>Carocolla helicoides</i> Lea.	Ohio. Kentucky.
160	Oregonensis Lea.	Oregon.
161	palliata Say. <i>Helix notata</i> Desh. var. <i>Helicodonta denotata</i> Fer. <i>Helix Caroliniensis</i> Lea. <i>Tridopsis palliata</i> Beck.	New York. Ohio. Vermont. Carolina.
162	Pennsylvanica Green. <i>H. clausa</i> Say.	Pennsylvania.
163	perspectiva Say. <i>Helicella perspectiva</i> Fer. var. <i>Helix patula</i> Desh. <i>Euryomphala perspectiva</i> Beck. <i>Patula perspectiva</i> Held.	New York.
165	planorboides Raf. <i>Helicella planorboides</i> Fer. var. <i>Mesomphix planorboides</i> Raf. <i>Helix concava</i> Say. <i>Circinaria planorboides</i> Beck.	Ohio. Illinois.

Page.	Name.	Locality.
167	Helix profunda Say. <i>Helicella Richardi</i> Fer. var. <i>Tridopsis Richardi</i> Beck.	Ohio.
167	pulchella Müll. (var.) <i>H. paludosa</i> Walk., Mont., &c. &c. <i>H. minuta</i> Say.	Ohio.
168	pura Alder. (var.) <i>Helix nitidula</i> ♂ Drap. <i>lenticula</i> Held. <i>electrina</i> Gould. <i>nitida</i> Risso. <i>Helicella nitidosa</i> Beck. <i>Polita nitidosa</i> Held. <i>Zonites purus</i> Gray. <i>Helix striatula</i> Gray. <i>radiatula</i> Alder. <i>Zonites radiatulus</i> Gray. <i>Helix viridula</i> Menke. <i>clara</i> Held. <i>Helicella viridula</i> Beck. <i>Polita clara</i> Held.	Ohio.
169	pustula Fer. <i>Helicodonta pustula</i> Fer.	Texas.
173	Sayi Binney. <i>H. diodonta</i> Say.	Vermont.
176	solitaria Say. <i>Euryomphala solitaria</i> Beck.	Ohio.
176	spinosa Lea. <i>Carocolla spinosa</i> Lea.	Alabama.
177	striatella Anthony. <i>H. perspectiva</i> Fer.	Ohio.
178	subplana Binney.	New York.
180	Texasiana Moric. <i>H. triodonta</i> Jan. var. <i>H. fatigiata</i> Binney. <i>Polygyra plicata</i> Say. <i>Tridopsis tridonta</i> Beck. <i>Polygyra fatigiata</i> Say.	Texas.
180	thyroides Say. <i>Helix thyroidus</i> Say. var. <i>Helicodonta thyroidus</i> Say. <i>Mesodon leucodon</i> Rafin. <i>Tridopsis thyroidus</i> Beck.	New York. Ohio.
180	Townsendiana Lea.	Wahlamat.

Page.	Name.	Locality.
181	Helix tridentata Say. <i>Helicodonta tridentata</i> Say. var. <i>Tridopsis lunula</i> Rafn., Beck. <i>tridentata</i> Beck.	New York. N. England, Canada. Pennsylvania.
182	Troostiana Lea. <i>Polygyra Troostiana</i> Lea.	Tennessee.
182	tudiculata Binney.	California.
183	Vancouverensis Lea.	Oregon.
184	ventrosula Pfr.	Mexico.
186	zaleta Say. <i>H. albolabris</i> Fer.	New York.
194	Bulimus dealbatus Say. <i>Helix dealbata</i> Say. var. <i>Buliminus dealbatus</i> Beck. <i>Zebrina dealbata</i> Held.	Tennessee. Alabama.
196	fenestratus Pfr.	Mexico.
198	Gruneri Pfr.	Mexico.
198	Hegewischi Pfr.	Mexico.
201	Mexicanus Lam. <i>Cochlogena vittata</i> Fer. var. <i>Bulimulus Mexicanus</i> Beck.	Tabasco.
206	punctatissimus Less. (var.) <i>Clausilia exesa</i> Pot. et M. <i>Cochlodina exesa</i> Fer. <i>Auricula fuscagula</i> Lea. <i>Pupa septemPLICata</i> Mühlf. <i>Odontostomus fuscagulus</i> Beck. <i>Bulimus septemPLICatus</i> Pfr.	Mexico.
208	rudis Anton.	Mexico.
208	Schiedeanus Pfr. <i>B. xanthostomus</i> Wieg. var. <i>B. candidissimus</i> Nyst.	Mexico.
213	zebra Müll. <i>Buccinum zebra</i> Müll., &c. &c.	Mexico.
218	Achatina fasciata Müll. <i>Buccinum fasciatum</i> Müll., &c. &c.	Florida.
219	lubrica Müll. <i>Helix lubrica</i> Müll., &c. &c.	Massachusetts.
221	Rangiana Pfr.	Mexico.
222	trochlea Pfr.	Mexico.
222	truncata Gmel. <i>Bulla truncata</i> Gmel. <i>Buccinum striatum</i> Chemn. <i>Bulimus striatus</i> Brug.	Florida, &c.

Page.	Name.	Locality.
	<i>Cochlicopa rosea</i> Fer.	
	<i>Achatina rosea</i> Desh.	
	<i>striata</i> Lam.	
	<i>Polyphemus glans</i> Say.	
	<i>Glandina truncata</i> Say.	
223	Achatina virginea Linn.	Florida, &c.
	<i>Bulla Virginea</i> Linn., &c. &c.	
224	Pupa armifera Say.	Ohio.
	<i>P. armigera</i> Pot. et M.	
	var. <i>P. rupicola</i> Pfr.	
225	contracta Say.	New York.
225	corticaria Say.	Ohio.
	<i>Odostomia corticaria</i> Say.	
226	fallax Say.	New York.
	<i>P. albolabris</i> Ward.	
	var. <i>P. simplex</i> Binney.	Massachusetts.
	<i>Cyclostoma marginatum</i> Say.	
	<i>P. placida</i> Say.	
227	Gouldii Binney.	New York.
228	milium Gould.	Vermont.
229	muscorum Linn. (var.)	New York.
	<i>Turbo muscorum</i> Linn., &c.	
	<i>P. badia</i> Adams.	
230	ovata Say.	New York.
	<i>Vertigo ovata</i> Say.	
	var. <i>P. modesta</i> Say.	
	<i>P. ovulum</i> Pfr.	
230	pentodon Say.	New York.
	<i>Vertigo pentodon</i> Say.	
	var. <i>P. Tappaniana</i> Ward.	Vermont.
	<i>curvidens</i> Gould.	Ohio.
231	rupicola Say.	S. Carolina, Florida.
232	simplex Gould.	Massachusetts.
235	Cylindrella Goldfussi Menke.	Texas.
235	Liebmanni Pfr.	Mexico.
250	Succinea avara Say.	New York.
	var. <i>S. vermeta</i> Say.	
250	campestris Say.	New York.
	<i>Cochlohydra campestris</i> Fer.	
250	Grœnlandica Beck.	Greenland.
250	inflata Lea.	Carolina.
250	Oregonensis Lea.	Oregon.
250	ovalis Say.	New York.
	var. <i>Cochlohydra ovalis</i> Fer.	Ohio.

Family **Cyclostomacea.**

Page.	Name.	Locality.
255	Cyclostoma dentatum Say.	Florida.
257	Mexicanum Menke. (<i>Aperostoma</i>) Troschel.	Mexico.
259	Sayanum Anthony.	Ohio.
262	Helicina occulta Say.	Indiana.
262	orbiculata Say. <i>Polygyra orbiculata</i> Say.	East Florida.

Family **Auriculacea.**

263	Carychium exiguum Say. <i>Pupa exigua</i> Say.	Vermont.
264	Auricula bidentata Say. <i>Auricula cornea</i> Desh. var. <i>Melampus bidentatus</i> Say.	New York. Massachusetts.
264	denticulata Mont. (var.) <i>Actron denticulatus</i> Flem. <i>Jaminea denticulata</i> Leach. <i>Conovulus denticulatus</i> Gray. <i>Auricula myosotis</i> Jeffr.	Massachusetts.
265	Sayi Kust.	New Jersey.

Family **Lymnaeidae.**

267	Planorbis albus Müll. (var.) <i>Helix alba</i> Gmel. <i>P. villosa</i> Poir. <i>albus</i> Turton. <i>hirsutus</i> Gould.	Massachusetts.
267	armigerus Say.	New York.
267	bicarinatus Say. var. <i>P. engonatus</i> Conrad.	New York. Georgia.
267	campanulatus Say.	New York.
267	corpulentus Say.	Winnipeg river.
267	deflectus Say. var. <i>P. virens</i> Adams.	Ohio. Vermont.
267	dilatatus Gould.	Massachusetts.
267	exacutus Say.	New York.
267	lentus Say.	South Carolina.
268	parvus Say. var. <i>P. elevatus</i> Adams. <i>concavus</i> Anthony.	New York. Vermont. Ohio.
268	trivolvus Say. var. <i>P. regularis</i> Lea. <i>fullax</i> Say.	New York. New England. New Jersey.

Page.	Name.	Locality.
268	Lymnæa appressa Say.	Vermont.
268	attenuata Say.	Mexico.
268	caperata Say.	Ohio.
	var. <i>L. umbilicata</i> Adams.	New Bedford.
268	catascopium Say.	New York.
	<i>L. emarginata</i> Say.	
	var. <i>L. Virginiana</i> Lam.	Virginia.
	<i>cornea</i> Val.	
	<i>pinguis</i> Say.	Wisconsin.
	<i>decollata</i> Mighels.	Unity, Maine.
269	columella Say.	Massachusetts.
	var. <i>L. acuminata</i> Adams.	Woburn.
	<i>chalybea</i> Gould.	Cambridge.
	<i>coarctata</i> Lea.	Rhode Island.
	<i>macrostoma</i> Say.	Cayuga lake, N. Y.
269	desidiosa Say.	New York.
	var. <i>L. acuta</i> Lea.	Massachusetts.
	<i>Philadelphica</i> Lea.	Pennsylvania.
269	elodes Say.	New York.
269	elongata Say.	New York.
	<i>L. umbrosa</i> Say.	
269	expansa Hald.	Vermont.
269	ferruginea Hald.	Oregon.
269	fragilis Linn. (var.)	New York.
	<i>L. palustris</i> Dr.	
	<i>L. speciosa</i> Ziegl.	
	var. <i>L. corvus</i> Parr.	
269	gracilis Jay.	Vermont.
	<i>Acella gracilis</i> Hald.	
269	Grœnlandica.	Greenland.
269	humilis Say.	New York.
	var. <i>L. modicella</i> Say.	Maine.
	<i>parva?</i> Lea.	Ohio.
269	jugularis Say.	New York.
270	Lindsleyi De Kay.	Connecticut.
270	megasoma Say.	N. W. Territory.
270	Nuttalliana Lea.	Oregon.
270	obrusa Say.	Philadelphia.
270	pallida Adams.	Lake Champlain.
270	reflexa Say.	New York.
	var. <i>L. exilis</i> Lea.	Ohio.
270	solida Lea.	Oregon.
271	umbrosa Say.	New York.
	var. <i>L. elongata</i> Say.	Connecticut.

Page.	Name.	Locality.
271	Lymnæa Vahlîi Beck. <i>Limnophysa Vahlîi</i> Beck.	Greenland.
271	Physa ancillaria Say. var. <i>P. Sayi</i> Tappan.	Pennsylvania. Ohio.
271	distorta Hald.	St. Louis.
271	fragilis Mighels.	Maine.
271	gyrina Say. var. <i>P. elliptica</i> Lea.	Ohio. Indiana.
271	heterostropha Say. var. <i>P. aurea</i> Lea.	New York. Virginia.
271	hypnorum Linn. (var.) <i>P. elongata</i> Say.	New York.
271	obesa De Kay.	Mohawk river.
271	osculans Hald.	Mexico.
271	scalaris Jay.	Florida.
272	Ancylus diaphanus Hald.	Ohio.
272	fuscus Adams.	Massachusetts.
272	obscurus Hald.	Tennessee.
272	parallelus Hald.	New England.
272	rivularis Say.	Pennsylvania.
272	tardus Say.	Vermont.

ORDER **PECTINIBRANCHIATA.**Family **Melaniana.**

272	Melania æqualis Hald.	Nolachucky river.
272	atilis Lea.	Susquehannah river.
272	alveare Conrad.	Tennessee.
272	annulifera Conrad.	Alabama.
272	approxima Hald.	Tennessee.
272	armigera Say.	Tennessee.
273	bella-crenata Hald.	Alabama.
273	Boykiniana Lea.	Georgia.
273	Buddii Lea.	Tennessee.
273	caliginosa Lea.	Tennessee.
273	canaliculata Say.	Ohio.
273	catenaria Say.	South Carolina.
273	catenoides Lea.	Georgia.
273	Cincinnatiensis Lea.	Ohio.
273	clavæformis Lea.	Tennessee.
273	comma Conrad.	Alabama.
273	congesta Conrad.	Alabama.
273	conica Say.	Ohio.
273	costulata Lea.	Tennessee.

Page.	Name.	Locality.
273	Melania crebricostata Lea.	Tennessee.
273	<i>depygis</i> Say.	Ohio.
273	<i>dubiosa</i> Lea.	Alabama.
273	<i>Duttoniana</i> Lea.	Tennessee.
273	<i>ebenum</i> Lea.	Tennessee.
273	<i>Edgariana</i> Lea.	Tennessee.
273	<i>elevata</i> Say.	Ohio.
273	<i>excisa</i> Lea.	Alabama.
	(<i>Schizostoma</i>) Lea.	
273	<i>excurata</i> Conrad.	Tennessee.
273	<i>exilis</i> Hald.	Ohio.
	var. <i>M. Kirtlandiana</i> Lea.	Indiana.
273	<i>gracilis</i> Anthony.	Ohio.
273	<i>Haysiana</i> Lea.	Alabama.
273	<i>Hydei</i> Conrad.	Alabama.
274	<i>impressa</i> Lea.	Alabama.
274	<i>incisa</i> Lea.	Alabama.
	<i>Anculotus incisus</i> Lea.	
274	<i>interrupta</i> Hald.	Tennessee.
274	<i>Jayana</i> Lea.	Tennessee.
274	<i>læta</i> Jay.	Alabama.
	var. <i>M. robusta</i> Lea.	Coosa river.
274	<i>laqueata</i> Say.	Tennessee.
274	<i>Le Contiana</i> Lea.	Georgia.
274	<i>lima</i> Conrad.	Alabama.
274	<i>livescens</i> Menke.	Lake Erie.
	var. <i>M. Niagarensis</i> Lea.	Niagara.
274	<i>multilineata</i> Say.	Virginia.
	<i>M. Virginica?</i> Say.	
274	<i>nassula</i> Conrad.	Alabama.
274	<i>nupera</i> Say.	Indiana.
	<i>Melanopsis semigranulosa</i> .	
274	<i>occidentalis</i> Lea.	Ohio.
274	<i>olivula</i> Conrad.	Alabama.
274	<i>Pagoda</i> Lea.	Tuscaloosa.
	(<i>Schizostoma</i>) Lea.	
274	<i>perfusca</i> Lea.	Tennessee.
274	<i>plicatula</i> Lea.	Tennessee.
274	<i>plicifera</i> Lea.	Wahlamat river.
274	<i>prasinata</i> Conrad.	Alabama.
274	<i>proxima</i> Say.	South Carolina.
	var. <i>M. carinata</i> Rav.	North Carolina.
274	<i>regularis</i> Lea.	Tennessee.
274	<i>Rogersii</i> Conrad.	Alabama.

Page.	Name.	Locality.
274	Melania salebrosa Conrad.	Tennessee.
274	Sayii Ward.	Ohio.
275	semicarinata Say.	Ohio.
275	simplex Say.	Virginia.
275	sordida Lea.	Tennessee.
275	striatula Lea.	Tennessee.
275	Stygia Say.	Cumberland river.
275	subularis Lea.	Niagara.
275	suturalis Hald.	Ohio.
275	symmetrica Hald.	Virginia.
275	Taitiana Lea.	Alabama.
275	teres Lea.	Tennessee.
275	Troostiana Lea.	Tennessee.
275	tuberculata Lea.	Tennessee.
275	uncialis Hald.	Tennessee.
275	undulata Say.	Ohio.
275	varicosa Ward.	Ohio.
275	venusta Lea.	Tennessee.
275	Virginica Say.	Virginia.
276	Anculotus angulatus Conrad.	Alabama.
276	carinatus De Kay.	Lake Champlain.
276	crassus Hald.	Tennessee.
276	dissimilis Say.	Pittsburg.
	<i>Paludina dissimilis</i> Say.	
276	geniculatus Hald.	East Tennessee.
	<i>Lithasia geniculata</i> Hald.	
276	integer Say.	Ohio.
	var. <i>A. concolor</i> Anthony.	Indiana.
276	Kirtlandianus Anthony.	Ohio.
276	monodontoides Conrad.	Virginia.
	var. <i>A. dentatus</i> Couth.	Potomac river.
276	nigrescens Conrad.	Maryland.
276	obovatus Say.	Alabama.
	<i>Melania oborata</i> Say.	
276	pictus Conrad.	Alabama.
276	plicatus Conrad.	Alabama.
276	prærosus Say.	Ohio.
	var. <i>A. virgatus</i> Lea.	Tennessee.
276	rubiginosus Lea.	Alabama.
276	subglobosus Say.	Virginia.
	<i>Melania subglobosus</i> Say.	
276	tæniatus Conrad.	Alabama.
276	trilineatus Say.	Falls of Ohio.
	var. <i>A. costatus</i> Anthony.	Ohio river.

Page.	Name.	Locality.
277	<i>Io fusiformis</i> Lea.	Tennessee.
277	<i>spinosa</i> Lea.	Tennessee.

Family **Peristomata.**

278	<i>Valvata pupoidea</i> Gould.	Boston.
278	<i>sincera</i> Say.	Lake Champlain.
278	<i>tricarinata</i> Say.	New York.
	var. <i>V. unicarinata</i> De Kay.	Boston.
	<i>carinata</i> Sowerby.	
278	<i>Amnicola attenuata</i> Hald.	Virginia.
278	<i>Cincinnatiensis</i> Lea.	Ohio.
	<i>Cyclostoma Cincinnatiense</i> .	
278	<i>elongata</i> .	Virginia.
278	<i>grana</i> Say.	Ohio.
	<i>Paludina grana</i> Say.	
278	<i>isogona</i> Say.	Ohio.
	<i>Melania isogona</i> Say.	
278	<i>lapidaria</i> Say.	Ohio.
	<i>Cyclostoma lapidaria</i> Say.	
278	<i>limosa</i> Say.	Ohio.
	<i>Paludina limosa</i> Say.	
278	<i>lustrica</i> Say.	Vermont.
	<i>Paludina lustrica</i> Say.	
278	<i>pallida</i> Hald.	Vermont.
278	<i>porata</i> Say.	Ohio.
	<i>Paludina porata</i> Say.	
278	<i>Sayana</i> Anthony.	Ohio.
279	<i>Paludina altalis</i> Rav.	Santee canal.
279	<i>angulata</i> Lea.	Alabama.
279	<i>Coosaensis</i> Lea.	Alabama.
279	<i>cyclostomatiformis</i> Lea.	Alabama.
279	<i>decisa</i> Say.	New York, Ohio.
279	<i>genicula</i> Conrad.	Georgia.
280	<i>Georgiana</i> Lea.	Georgia.
280	<i>heterostrophia</i> Anthony.	Ohio.
280	<i>integra</i> Say.	Ohio.
280	<i>intertexta</i> Say.	Louisiana.
280	<i>magnifica</i> Conrad.	Georgia.
	var. <i>P. bimonilifera</i> Lea.	Alabama.
280	<i>Nuttalliana</i> Lea.	Wahlamat.
280	<i>ponderosa</i> Say.	Ohio, Alabama.
280	<i>subcarinata</i> Say.	Ohio.
281	<i>subglobosa</i> Say.	N. W. Territory.
281	<i>subpurpurea</i> Say.	Illinois.

Page.	Name.	Locality.
282	Ampullaria depressa Say. var. <i>A. Hopetonensis</i> Lea. paludosa Say.	East Florida. Georgia.
283	scalaris D'Orb.	Mexico.
283	urceus Müll. <i>Nerita urceus</i> Müll. var. <i>Bulinus urceus</i> Brug. <i>A. rugosa</i> Lam.	Mexico. Mississippi.

Family **Neritacea.**

288	Neritina reclivata Say. <i>N. macrostoma</i> D'Orb. var. <i>N. Floridana</i> ? Shuttl.	Mexico. Vera Cruz.
289	Nerita Deshayssii Recluz.	California.
291	Natica canaliculata Gould.	B'ks of Newfoundland.
291	clausa Sowerby. <i>N. borealis</i> Beck. var. <i>N. consolidata</i> Couth.	Melville Island. New York.
291	cornea Möll. <i>N. fragilis</i> Sab.	Greenland.
292	duplicata Say.	New York.
292	flava Gould. (<i>Globulus</i>) Sowerby.	B'ks of Newfoundland.
292	Grœnlandica Beck.	Greenland.
292	heros Say.	New York.
292	immaculata Totten.	Rhode Island.
292	Lewisii Gould.	Puget Sound.
293	otis Sowerby.	Mazatlan.
293	pusilla Say. <i>N. alba</i> Loven. var. <i>N. Grœnlandica</i> Beck.	New York.
293	triseriata Say.	New York.

Family **Velutiniidæ.**

294	Velutina lævigata Linn. <i>Helix lævigata</i> Linn. var. <i>V. capuloidea</i> Blain. rupicola Conrad. <i>Galericulum lævigatum</i> Brown. <i>Velutina plicaria</i> ?	Boston bay. Massachusetts. Greenland.
294	zonata Gould.	Boston bay.

Family **Plicacea.**

296	Tornatella puncto-striata Adams.	New York.
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Family **Turbinacea.**

Page.	Name.	Locality.
299	Pyramis striatula <i>Couth.</i>	Massachusetts.
299	Cingula aculeus <i>Gould.</i>	Boston.
299	latior <i>Mighels.</i>	Casco bay.
299	minuta <i>Totten.</i>	New Bedford.
	<i>Turbo minutus</i> Totten.	
299	Odostomia exigua <i>Couth.</i>	Boston.
	<i>Jaminiæ exigua</i> Couth.	
	var. <i>Rissoa rupestris</i> Forbes.	
	<i>Turitella bisuturalis</i> ? Say.	
299	fusca <i>Adams.</i>	New Bedford.
	<i>Pyramis fusca</i> Adams.	
	var. <i>Jaminiæ fusca</i> Adams.	
299	seminuda <i>Adams.</i>	Cape Cod.
	<i>Jaminiæ seminuda</i> Adams.	
299	trifida <i>Totten.</i>	Rhode Island.
	<i>Acteon trifidus</i> Totten.	
300	Scalaria Grœnlandica <i>Chemn.</i>	B'ks of Newfoundland.
	<i>Turbo clathrus Grœnlandicus.</i>	
	var. <i>S. planicosta</i> Kiener.	Massachusetts bay.
	<i>subulata</i> Couth.	Greenland.
300	hexagona <i>Sowerby.</i>	Acapulco.
300	lineata <i>Say.</i>	New York.
300	multistriata <i>Say.</i>	South Carolina.
	<i>S. pulchella</i> Bivon.	
300	Nov.-Angliæ <i>Couth.</i>	Cape Ann.
302	Solarium placentale <i>Hinds.</i>	California.
305	Trochus moestus <i>Jonas.</i>	California.
307	undusus <i>Wood.</i>	California.
	var. <i>T. Californianus</i> Nutt.	
307	unguis <i>Wood.</i>	Acapulco.
	<i>T. digitatus</i> Desh.	
307	Margarita arctica <i>Leach.</i>	Plymouth, Mass.
	<i>Turbo inflatus</i> Totten.	
307	argentata <i>Gould.</i>	Cape Ann.
307	cinerea <i>Couth.</i>	Massachusetts bay.
	<i>Turbo cinereus</i> Couth.	
307	expansa <i>Sowerby.</i>	Arctic Sea.
307	glabrata.	Greenland.
307	glacialis <i>Müll.</i>	Greenland.
307	Grœnlandica <i>Beck.</i>	Greenland.
307	obscura <i>Couth.</i>	Massachusetts bay.
	<i>Turbo obscurus</i> Couth.	
307	septentrionalis.	Greenland.

Page.	Name.	Locality.
307	Margarita undulata Sowerby. <i>Turbo incarnatus</i> Couth.	Massachusetts bay.
308	Turbo Fokkesii Jonas. <i>Marmorostoma planospira</i> Jay. var. <i>Turbo fluctuatus</i> Reeve.	Mazatlan. Columbia.
310	Littorina irrorata Say. <i>Phasianella sulcata</i> Lam.	New York, Florida.
311	palliata Say. <i>Turbo palliatus</i> Say.	New York.
311	Sitchana Phil.	Isl. Sitcha.
311	tenebrosa Mont. <i>Turbo vestitus</i> Say.	New York.
311	Lacuna divaricata.	Greenland.
311	fusca Binney. var. <i>Lacuna vincta?</i> Mont.	Boston.
311	Neritoidea Gould.	Boston bay.
312	vincta Mont. (var.) <i>L. pertusa</i> Conrad. var. <i>Turbo quadrifasciatus</i> Flem.	Plymouth, Mass.
313	Turritella erosa Couth.	Boston bay.
313	interrupta Totten.	Rhode Island.
313	polaris Beck.	Greenland.
313	reticulata Mighels.	Gulf of St. Lawrence.

Family **Canalifera.**

314	Cerithium Emersonii Adams.	New Bedford.
314	ferrugineum Say.	South Carolina.
314	Greenii Adams.	Cape Cod.
315	muscarum Say. <i>C. stercus-muscarum.</i>	Florida.
315	nigro-cinctum Adams.	New Bedford.
316	Sayi Menke. <i>C. reticulatum</i> Totten.	New Bedford.
316	terebrale Adams.	New Bedford.
318	Turbinella scolymus Gmelin (var.) (<i>Latirus</i>) Montf.	Gulf of Mexico.
319	Cancellaria Couthouyi Jay. <i>C. buccinoides</i> Couth.	Massachusetts bay.
320	urceolata Hinds.	California.
320	viridula Fab. <i>Defrancia viridula.</i>	Greenland.
320	Fasciolaria ligata Mighels.	Gulf of St. Lawrence.
321	tulipa Linn. (var.)	Gulf of Mexico.

Page.	Name.	Locality.
321	Fusus carinatus Pennant.	Greenland.
	<i>Murex carinatus</i> Pennant.	
	var. <i>Murex fornicatus</i> Dillwyn.	North Sea.
321	corneus Linn. (var.)	B'ks of Newfoundland.
	<i>Murex corneus</i> Linn.	
321	corona Gmelin.	Gulf of Mexico.
	<i>Murex corona</i> Gmelin.	
321	decemcostatus Say.	Massachusetts bay.
322	Dupetit-Thouarsii Kiener.	California.
322	harpularius Couth.	Massachusetts bay.
322	muricatus Mont.	Massachusetts bay.
	<i>Murex muricatus</i> Mont.	
322	scalariformis Gould.	B'ks of Newfoundland.
323	tornatus Gould.	B'ks of Newfoundland.
323	turriculus Mont.	B'ks of Newfoundland.
	<i>Murex turriculus</i> Mont.	
	var. <i>Pleurotoma turricula</i> Reeve.	
	<i>Murex angulatus</i> Donov.	
323	ventricosus Gray.	B'ks of Newfoundland.
	<i>F. ocelliferus</i> Encycl. M.	
323	Trophon clathratum Fab.	Greenland.
	<i>Tritonium clathratum</i> Fab.	
323	craticulatum Fab.	B'ks of Newfoundland.
	<i>Tritonium craticulatum</i> Fab.	
	var. <i>Trophon Fabricii</i> Beck.	
323	Defrancia cinerea Möll.	Greenland.
324	exarata Möll.	Greenland.
324	livida Möll.	Greenland.
324	reticulata Möll.	Greenland.
324	VahlII Beck.	Greenland.
324	viridula Fab.	Greenland.
	<i>Tritonium viridula</i> Fab.	
324	Daphnella decussata Couth.	Maine.
326	Pleurotoma funiculata Valenc.	Gulf of California.
327	plicosa Adams.	New Bedford.
	<i>P. plicata</i> Adams.	
328	violacea Adams.	Maine.
328	Pyrula aruana Linn.	New York.
	<i>P. carica</i> Lam.	
	var. <i>Murex aruanus</i> Linn.	South Carolina.
328	canaliculata Linn.	New York.
	<i>Murex canaliculatus</i> Linn.	
	var. <i>P. spirata</i> Kien.	Rye, Vineyard.
329	perversa Linn.	Key West.
	<i>Murex perversus</i> Linn.	

Page.	Name.	Locality.
329	Pyrula pyrum Dillwyn. <i>P. spirata</i> Lam. var. <i>Fulgur pyruloides</i> Say.	Florida.
330	Murex bicolor Val. <i>M. erythrostomus</i> Swains. var. <i>M. regius</i> Schub. et Wagn.	Gulf of California. Mazatlan.
330	brassica Lam. <i>M. ducalis</i> Brod.	Gulf Calif'a, Mazatlan.
330	chrysostomus Gray.	Gulf of Mexico.
331	elongatus Lam.	Gulf of Mexico.
331	foliatus Gmelin.	California.
331	imperialis Swain. (var.)	California.
332	Nuttallii Conrad. <i>Cerostoma Nuttallii</i> Conrad.	California.
333	spinicostata Val.	Gulf of Mexico.
334	trilineatus Reeve.	Gulf of Mexico.
334	Ficula decussata Wood.	San Blas.
335	papyratia Say. <i>Pyrula papyratia</i> Say.	Florida.
335	Ranella caudata Say.	New York.
336	triquetra Reeve.	California.

Family **Alata.**

339	Aporrhais occidentalis Beck. <i>A. occidentalis</i> Sowerby.	Grand Bank.
342	Strombus galeatus Wood. (var.)	California.
342	gracilior Wood.	California.

Family **Purpurifera.**

346	Ricinula dumosa Conrad. <i>R. porphyrostoma</i> Reeve.	California.
347	Columbella avara Say.	New York.
348	carinata Hinds.	California.
348	hæmastoma Sowerby (var.)	California.
349	lunata Say. <i>Nassa lunata</i> Say.	Massachusetts.
351	Purpura aperta Blain. (var.) <i>P. macrostoma</i> Conrad.	California.
352	emarginata Desh. <i>P. Conradi</i> Nutt.	California.
352	Floridana Conrad.	Tampa bay.
352	harpa Conrad.	California.
353	lapillus Linn. (var.) <i>Buccinum filiosum</i> Gmelin. var. <i>P. imbricata</i> Lam.	Massachusetts. Maine.

Page.	Name.	Locality.
354	Monoceros brevidens Conrad.	California.
355	lugubre Sowerby. <i>M. cymatum</i> Sowerby.	California.
355	punctatum Gray. <i>Purpura lapilloides</i> Conrad.	Santa Barbara.
355	unicarinatum Sowb. (var.) <i>Purpura engonata</i> Conrad.	Santa Barbara.
356	Harpa crenata Swain. (var.) <i>H. testudinalis</i> . var. <i>H. Rivoliana</i> Less. <i>Mexicana</i> .	Mexico.
358	Trichotropis borealis Sowerby. <i>T. costellatus</i> Couth.	Newfoundland.
358	Bullia armata Gray. <i>Buccinum moniliferum</i> Kien.	Newfoundland.
359	Buccinum calcareum .	Newfoundland.
359	ciliatum Fabr. <i>Tritonium ciliatum</i> Fabr. var. <i>B. ventricosum</i> Kien.	Newfoundland.
360	cyaneum Beck.	Greenland.
360	Donovani Gray.	Newfoundland.
361	Möllerii Reeve.	Greenland.
362	plicosum Menke. <i>Fusus cincreus</i> Say.	New York.
362	pristis Desh. <i>B. serratum</i> Kien. var. <i>B. Northii</i> .	California.
362	pusio Linn. <i>B. plumatum</i> Gmelin. var. <i>Fusus pusio</i> Encycl. <i>articulatus</i> Lam.	California.
363	undatum Linn. (var.) <i>Tritonium undatum</i> Müll. <i>B. striatum</i> Pennant. var. <i>B. solutum</i> Dillwyn. <i>Cochlea marina</i> Belon.	Grand Banks. Massachusetts. Cape Cod.
364	Nassa obsoleta Say. <i>Buccinum oliviforme</i> Kien.	New York.
365	trivittata Say.	New York.
365	vibex Say.	South Carolina.
369	Oliva litterata Lam.	Florida.
369	mutica Say.	South Carolina.
370	polpasta Duclos.	California.
373	Terebra rudis Gray. <i>T. Petittii</i> Kiener.	South Carolina.

Page.	Name.	Locality.
373	Terebra specillata <i>Hinds.</i>	San Blas.
373	variegata <i>Gray.</i>	Gulf of California.
	T. Africana <i>Gray.</i>	

Family **Columellata.**

374	Marginella carnea <i>Storer.</i>	Key West.
375	Storeria <i>Couth.</i>	Gulf of Mexico.
378	Mitra Groenlandica <i>Gray.</i>	Greenland.
383	Voluta Junonia <i>Chemn.</i>	Gulf of Mexico.

Family **Convoluta.**

387	Cypræa albuginosa <i>Mawe.</i>	California.
387	Arabica <i>Linn. (var.)</i>	California.
	<i>C. cglantina</i> <i>Duclos, &c. &c.</i>	
387	Californica <i>Gray.</i>	California.
	<i>Trivia Californica</i> <i>Gray.</i>	
391	onyx <i>Linn.</i>	San Diego, California.
	<i>C. adusta</i> <i>Lam.</i>	
	<i>nymphæ</i> <i>Duclos.</i>	
	<i>pulla</i> <i>Gmelin.</i>	
392	Solandri <i>Gray.</i>	California.
394	Ovulum avena <i>Sowerby.</i>	Mexico.
	<i>(Cypræada.)</i>	
395	uniplicatum <i>Sowerby.</i>	South Carolina.
400	Conus interruptus <i>Brod.</i>	Mazatlan.
404	purpurascens <i>Brod.</i>	San Blas.
405	spurius <i>Gmel. (var.)</i>	Mexico.
	<i>C. leoninus</i> <i>Brug.</i>	
	<i>Protus</i> <i>Brug.</i>	
	<i>inscriptus</i> <i>Brug.</i>	
	<i>bicolor</i> <i>Sowerby.</i>	

(Errata.) *Natica Groenlandica* Beck = **N. pusilla** *Say.*

SUPPLEMENT.

465	Cyclas aurea <i>Prime.</i>	Ohio.
465	cærulea <i>Prime.</i>	Massachusetts.
465	fabalis <i>Prime.</i>	Lake Superior.
465	flava <i>Prime.</i>	Lake Superior.
465	Jayensis <i>Prime.</i>	Lake Superior.
465	pellucida <i>Prime.</i>	Vermont.
	<i>C. calyculata</i> <i>Adams.</i>	
466	securis <i>Prime.</i>	Cambridge.
466	solidula <i>Prime.</i>	Ohio.
466	transversa <i>Say.</i>	Ohio.
466	truncata <i>Lindsley.</i>	Connecticut.

Page.	Name.	Locality.
466	Pisidium abditum <i>Hald.</i>	Pennsylvania.
466	altile <i>Anthony.</i>	Ohio.
466	compressum <i>Prime.</i>	Massachusetts.
466	variable <i>Prime.</i>	Massachusetts.
466	ventricosum <i>Prime.</i>	Massachusetts.
466	Venus astartoides <i>Beck.</i>	Greenland.
466	Manhattensis <i>Prime.</i>	New York.
468	Dentalium striolatum <i>Stimpson.</i>	Maine.
469	Bulla amygdalus <i>List.</i>	Gulf of Mexico.
	<i>B. striata</i> <i>Brug.</i>	
469	canaliculata <i>Say.</i>	New Bedford.
	Subgenus <i>Tornatina.</i>	
	var. <i>Bullina canaliculata</i> <i>Say.</i>	
	<i>Volvaria canaliculata</i> <i>Say.</i>	
469	corticata <i>Möll.</i>	Greenland.
	Subgenus <i>Cylichna.</i>	
469	debilis <i>Gould.</i>	Boston bay.
	Subgenus <i>Aplustrum.</i>	
470	formosa <i>Stimpson.</i>	Massachusetts.
	<i>Philine formosa</i> <i>Stimpson.</i>	
470	Gouldii <i>Couth.</i>	Boston bay.
	Subgenus <i>Aplustrum.</i>	
470	insculpta <i>Totten.</i>	Rye, New York.
	Subgenus <i>Haminea.</i>	
	<i>B. solitaria</i> <i>Say.</i>	Maryland.
	var. <i>B. Reinhardi</i> <i>Holb.</i>	North America.
470	lignaria <i>Linn. (var.)</i>	B'ks of Newfoundland.
	Subgenus <i>Scaphander.</i>	
470	nebulosa <i>Gould (var.)</i>	Gulf of California.
470	obstricta <i>Gould.</i>	Boston bay.
	Subgenus <i>Tornatina.</i>	
470	oryza <i>Totten.</i>	Massachusetts.
	Subgenus <i>Haminea.</i>	
470	pertenus <i>Mighels.</i>	Cape Cod.
471	triticea <i>Couth.</i>	Boston bay.
	Subgenus <i>Cylichna.</i>	
471	virescens <i>Sowerby.</i>	California.
	Subgenus <i>Haminea.</i>	
471	Helix exigua <i>Stimpson.</i>	Boston.
473	Succinea obliqua <i>Say.</i>	New York.
473	Texasiana <i>Pfr.</i>	Galveston.
474	Planorbis multivolvis <i>Case.</i>	Michigan.
474	Physa vinosa <i>Gould.</i>	Lake Superior.
474	Melania brevi-spira <i>Anthony.</i>	Ohio.
474	monilifera <i>Anthony.</i>	Georgia.
475	Odostomia insculpta <i>De Kay.</i>	New York bay.

Page.	Name.	Locality.
475	Turritella acicula <i>Stimpson.</i>	Cape Cod.
476	Pleurotoma cerinum <i>Kurtz, Stimpson.</i>	New Bedford.
476	Murex Belcheri <i>Hinds.</i>	San Diego.
476	monoceros <i>Sowb.=M. Nuttallii</i> <i>Conr.</i>	
478	Spiralis Gouldii <i>Stimpson.</i>	Coast of U. States.

[In the earlier editions of the Catalogue occur the following names. Considerable discrepancy also exists regarding synonymy, owing principally to the improvements in classification. These earlier editions, not being perfectly represented in the Bibliography, should be consulted by the student.—W. G. B.]

(First Edition, vide p. 46.)

Page.	Name.	Locality.
8	Mya hyalina.	Montauk point, N. Y.
8	Erycina cardioides.	Florida.
9	Pandora rostrata.	New Jersey.
10	Lucina divaricata.	Rhode Island.
11	Cyclas cornea.	New Jersey.
11	Cytherea Florida.	Florida.
12	concentrica.	South Carolina.
15	Unio formosus.	Ohio.
16	soleniformis.	Ohio.
16	ebenus.	Alabama.
16	asper.	Louisiana.
16	lens.	Ohio.
16	anodontoides.	Ohio.
16	pustulosus.	Ohio.
16	pustulatus.	Illinois.
16	oriens.	Ohio.
16	brevidens.	Ohio.
16	asperrimus.	Ohio.
16	multiplicatus.	Ohio.
16	rubiginosus.	Ohio.
16	sulcatus.	Ohio.
16	planulatus.	Ohio.
16	circulus.	Ohio.
16	multiradiatus.	Ohio.
16	occidens.	Illinois.
16	securis.	Ohio.
16	iris.	Ohio.
16	zigzag.	Ohio.
16	patulus.	Ohio.
16	calceolus.	Ohio.

Page.	Name.	Locality.
16	<i>Unio donaciformis.</i>	Ohio.
16	<i>ellipsis.</i>	Ohio.
16	<i>irroratus.</i>	Ohio.
16	<i>mytiloides.</i>	Ohio.
	<i>U. undatus</i> Barnes.	
16	<i>cuneiformis.</i>	Ohio.
17	<i>modioliformis.</i>	Ohio.
17	<i>perdix.</i>	Tennessee.
17	<i>varicosus.</i>	Ohio.
17	<i>tenerus</i> (Rav. ed. 2.)	Cooper river, S. C.
17	<i>ridibundus.</i>	Tennessee.
17	<i>torsus.</i>	Ohio.
17	<i>scalenius.</i>	Ohio.
17	<i>Æsopus.</i>	Ohio.
17	<i>cornutus.</i>	Ohio.
17	<i>cuneatus.</i>	Ohio.
17	<i>ventricosus.</i>	Illinois.
17	<i>triangularis.</i>	Ohio.
17	<i>foliatus.</i>	Ohio.
18	<i>undulatus.</i>	Ohio.
18	<i>Symphynota inflata.</i>	Tennessee.
18	<i>lævissima.</i>	Ohio.
18	<i>alata.</i>	Ohio.
18	<i>complanata.</i>	Ohio.
18	<i>compressa.</i>	Ohio.
18	<i>gracilis.</i>	Ohio.
18	<i>tenuissimus.</i>	Ohio.
18	<i>Alasmodonta confragosa.</i>	Illinois.
18	<i>rugosa.</i>	Ohio.
18	<i>complanata.</i>	Kentucky.
18	<i>marginata.</i>	Ohio.
18	<i>undulata.</i>	New Jersey.
18	<i>Anodonta fragilis.</i>	Ohio.
19	<i>Modiola demissus.</i>	Rhode Island.
20	<i>Pinna seminuda.</i>	South Carolina.
21	<i>Hinnites Poulsoni.</i>	California.
22	<i>Pecten gigantea.</i>	California.
26	<i>Helix aspersa.</i>	Charleston, S. C.
26	<i>Richardi.</i>	Tennessee.
28	<i>fraterna.</i>	Pennsylvania.
29	<i>Carocolla spinosa.</i>	Alabama.
30	<i>Bulimus undatus.</i>	Florida.
31	<i>mutilatus.</i>	South Carolina.
31	<i>Achatina vexillum.</i>	Florida.
31	<i>virginea.</i>	Florida.

Page.	Name.	Locality.
32	Achatina glans.	South Carolina.
33	Physa gyrina.	South Carolina.
33	Melania carinata.	Yadkin river, N. C.
34	Ampullaria Hopetonensis.	Georgia.
38	Cerithium dislocatum.	South Carolina.
39	Fasciolaria distans.	South Carolina.
40	Fusus cinereus.	South Carolina.
46	Buccinum serratum.	California.
53	Oliva Sayana.	South Carolina.

(Second Edition, vide p. 52.)

8	Solen constrictus <i>Lam.</i>	Rhode Island.
8	rostratus <i>Lam.</i>	Maine.
9	Thracia corbuloides <i>Desh.</i>	Rhode Island.
10	Gnathodon truncatus.	Florida.
12	Tellina versicolor <i>Cozzens.</i>	New York.
16	Cardium fasciatum <i>Mont.</i>	South Carolina.
19	Unio arcæformis <i>Lea.</i>	Tennessee.
20	dehiscens <i>Say.</i>	Ohio.
	<i>U. oriens</i> <i>Lea.</i>	
20	elegans <i>Lea.</i>	Ohio.
20	gibbosus <i>Barnes.</i>	
	<i>U. nasuta</i> <i>Lam.</i>	
20	fabalis <i>Lea.</i>	Ohio.
	<i>U. lapillus</i> <i>Say.</i>	
21	<i>heros</i> <i>Say</i> = U. multiplicatus <i>Lea.</i>	
21	perplexus <i>Lea.</i>	Ohio.
21	phaseolus <i>Hildreth.</i>	Ohio.
	<i>U. planulatus</i> <i>Lea.</i>	
21	pyramidatus <i>Lea.</i>	Ohio.
22	sulcatus <i>Lea.</i>	Tennessee.
	<i>U. ridibundus</i> <i>Say.</i>	
22	rugosus <i>Barnes.</i>	Ohio.
	<i>U. asperrimus</i> <i>Lea.</i>	
22	orbiculatus <i>Hildreth.</i>	Tennessee.
	<i>U. crassus</i> <i>Conrad.</i>	
	<i>abruptus</i> <i>Say.</i>	
22	<i>crassidens</i> (var. a) <i>Lam.</i> = U. trapezoides <i>Lea.</i>	
22	trigonus <i>Lea.</i>	Ohio.
22	<i>formosus</i> <i>Lea</i> = U. triangularis <i>Barnes.</i>	
22	<i>undatus</i> <i>Barnes</i> = U. obliquus <i>Lam.</i>	
22	undulatus <i>Barnes.</i>	Ohio.
23	<i>elongata</i> <i>Lam.</i> = Alasmodonta margaritifera <i>Say.</i>	
23	Alasmodonta edentula <i>Say.</i>	Ohio.
23	Anodonta areolata <i>Sw.</i>	Western rivers.

Page.	Name.	Locality.
23	<i>Anodonta corpulenta</i> Cooper.	Upper Miss. river.
23	<i>plana</i> Lea.	Illinois.
26	<i>Pecten concentricus</i> Say.	New York.
27	<i>Ostrea Canadensis</i> Lam.	New York.
29	<i>Clio borealis</i> Linn.	New York.
30	<i>Patella alveus</i> Conrad.	Plymouth, Mass.
31	<i>Crepidula unguiformis</i> Lam.	New York.
33	<i>Helix Bonplandii</i> Lam.	Tennessee.
34	<i>diodonta</i> Zgl.	Ohio.
34	<i>exoleta</i> Say.	Ohio.
34	<i>glaphyra</i> Say.	Ohio.
36	<i>minuta</i> Say.	Ohio.
36	<i>personata</i> Lam.	Ohio.
38	<i>Helicina picta</i> .	Mexico.
38	<i>Pupa exigua</i> Say.	Ohio.
39	<i>Clausilia exesa</i> Spir.	Mexico.
41	<i>Bulimus multifasciatus</i> Lam.	Mexico.
41	<i>princeps</i> Brod.	Mexico.
43	<i>Melampus bidentalis</i> Say.	New York.
43	<i>borealis</i> Conrad.	Rhode Island.
43	<i>Cyclostoma lapidaria</i> Say.	Ohio.
43	<i>marginata</i> Say.	Ohio.
44	<i>Physa elliptica</i> Lea.	Ohio.
45	<i>Lymnæa stagnalis</i> Lam.	Ohio.
45	<i>Melania annulata</i> Conrad.	Alabama.
45	<i>isogonia</i> Say.	Ohio.
45	<i>lineata</i> Say.	Ohio.
45	<i>mutilata</i> Say.	South Carolina.
45	<i>obovata</i> Say.	Ohio.
45	<i>olivata</i> Conrad.	Alabama.
46	<i>Paludina dissimilis</i> Say.	Ohio.
46	<i>grana</i> Say.	Ohio.
46	<i>limosa</i> Say.	Ohio.
47	<i>Neritina latissima</i> Brod.	Mexico.
49	<i>Actæon trifidus</i> Totten.	Rhode Island.
51	<i>Turbo inflatus</i> Totten.	Plymouth, Mass.
52	<i>minutus</i> Totten.	Cape Cod.
53	<i>Cerithium reticulatum</i> Totten.	Rhode Island.
74	<i>Loligo Pealeii</i> Lcsueur.	New York.
75	<i>Unio camelus</i> Lea.	Ohio.

(Third Edition, vide p. 64.)

12	<i>Saxicava rhomboides</i> Desh.	Massachusetts bay.
14	<i>Tellina rosea</i> Lam.	California.
15	<i>Lucina bella</i> Conrad.	Upper California.

Page.	Name.	Locality.
17	<i>Cytherea callosa</i> Conrad.	Upper California.
19	<i>Venus staminea</i> Conrad.	Upper California.
23	<i>Unio camelus</i> Lea.	Ohio.
23	<i>Cumberlandicus</i> Lea.	Tennessee.
24	<i>cuprinus</i> Lea.	Mexico.
24	<i>lævissimus</i> Lea.	Ohio.
24	<i>lachrymosus</i> Lea.	Ohio.
25	<i>orbiculatus</i> Hildreth.	Indiana.
25	<i>pileus</i> Lea.	Ohio.
25	<i>Schoolcraftensis</i> Lea.	Green bay.
25	<i>subovatus</i> Lea.	Ohio.
25	<i>tenuissimus</i> Lea.	Ohio.
28	<i>Anodonta pavonia</i> Lea.	Ohio.
30	<i>Modiola papuana</i> Lam.	New York.
30	<i>Mytilus borealis</i> Lam.	New York.
31	<i>Perna Californica</i> Conrad.	California.
33	<i>Pecten tumidus</i> Brod.	Upper California.
34	<i>Anomia patellaris</i> Lam.	New York.
36	<i>Eolis gymnota</i> Couth.	Charles river.
36	<i>salmonacea</i> Couth.	Massachusetts.
37	<i>Tritonia Reynoldsii</i> Couth.	Charles river.
37	<i>Chiton Californicus</i> Nutt.	Upper California.
37	<i>incarnatus</i> Nutt.	Upper California.
37	<i>pectinatus</i> Gould.	New York.
37	<i>textilis</i> Conrad.	Upper California.
37	<i>Patella amena</i> Say.	New York.
38	<i>plicata</i> Nutt.	Upper California.
38	<i>scabra</i> Nutt.	Upper California.
40	<i>Fissurella ornata</i> Nutt.	Upper California.
40	<i>pica</i> Nutt.	Upper California.
41	<i>Crepidula rugosa</i> Nutt.	Upper California.
41	<i>squamosa</i> Brod.	Upper California.
41	<i>Bulla Californica</i> Nutt.	Upper California.
46	<i>Helix denotata</i> Fer.	Ohio.
	<i>H. palliata</i> Say.	
47	<i>Leaii</i> Ward.	Ohio.
47	<i>linguifera</i> Fer.	Ohio.
	<i>H. appressa</i> Say.	
49	<i>planorbula</i> Lam.	Florida.
	<i>H. septemvoluta</i> Say.	
49	<i>scabra</i> Lam.	New York.
	<i>H. alternata</i> Say.	
50	<i>subglobosa</i> Binney.	Massachusetts.
51	<i>Wardiana</i> Lea.	Ohio.
51	<i>zaleta</i> Say.	Ohio.

Page.	Name.	Locality.
58	<i>Achatina striata</i> Desh.	Florida.
59	<i>Auricula cornea</i> Desh.	New York.
61	<i>Physa aurea</i> Lea.	Virginia.
62	<i>Melania subglobosa</i> Say.	Ohio.
62	<i>trilineata</i> Say.	Ohio.
63	<i>Anculotus dentatus</i> Conrad.	Potomac.
64	<i>Paludina porata</i> Say.	Ohio.
68	<i>Natica variolaris</i> .	California.
68	<i>Galericulus lævigatus</i> Brown.	Massachusetts bay.
68	<i>ovatum</i> Brown.	Massachusetts bay.
69	<i>Pyramidella terebellum</i> Lam.	South Carolina.
69	<i>Scalaria communis</i> Lam.	South Carolina, &c.
70	<i>subulata</i> Couth.	Massachusetts bay.
70	<i>Trochus Californicus</i> Nutt.	Upper California.
70	<i>castaneus</i> Nutt.	Upper California.
72	<i>Monodonta fusca</i> Nutt.	Upper California.
72	<i>marginata</i> Nutt.	Upper California.
72	<i>Turbo aculeus</i> Gould.	Massachusetts bay.
72	<i>cinereus</i> Couth.	Massachusetts bay.
72	<i>incarnatus</i> Couth.	Massachusetts bay.
72	<i>inflatus</i> Totten.	Plymouth.
72	<i>irroratus</i> Say.	New York.
73	<i>minutus</i> Totten.	Cape Cod.
73	<i>obligatus</i> Say.	Massachusetts.
73	<i>obscurus</i> Couth.	Massachusetts.
73	<i>palliatu</i> s Say.	Massachusetts.
73	<i>pallida</i> Nutt.	Upper California.
73	<i>vestita</i> Say.	Massachusetts.
73	<i>Marmarostoma planospira</i> Nutt.	Upper California.
73	<i>Littorina iostoma</i> Nutt.	Upper California.
73	<i>maculata</i> Nutt.	Upper California.
73	<i>planaxis</i> Nutt.	Upper California.
74	<i>Phasianella inflexa</i> Couth.	Massachusetts bay.
77	<i>Cancellaria Couthouyi</i> Jay.	Massachusetts bay.
	<i>C. buccinoides</i> Couth.	
79	<i>Melongena occidentalis</i> Nutt.	California.
80	<i>Murex sexcostatus</i> Brug.	California.
84	<i>Purpura bezoar</i> Blainv.	California.
84	<i>chocolatum</i> Ducloz.	California.
85	<i>macrostoma</i> Conrad.	Sta. Barbara.
86	<i>Monoceros engonata</i> Conrad.	California.
	<i>Purpura spirata</i> Blainv.	
86	<i>lapilloides</i> Nutt.	California.
86	<i>plumbeum</i> Kiener.	California.
86	<i>punctulatum</i> Gray.	California.

Page.	Name.	Locality.
86	<i>Trichotropis costellatus</i> Couth.	Massachusetts bay.
87	<i>Buccinum Boysii</i> Nutt.	Upper California.
88	<i>Poulsoni</i> Nutt.	Upper California.
88	<i>serratum</i> Dufr.	California.
88	<i>trivittatum</i> Say.	New York.
89	<i>Terebra Petittii</i> Kiener.	South Carolina.
96	<i>Cypræa pustulata</i> Lam.	Mexico.
97	<i>Oliva biplicata</i> Sowerby.	California.
98	<i>undatella</i> .	California.

(Appendix. See, also, p. 64.)

Pa.	Pl.	Fig.	Name.	Locality.
112	i	8, 9	<i>Paludina scalaris</i> Jay.	Florida.
112	i	10, 11	<i>Lymnæa gracilis</i> Jay.	Essex Co., N. Y.
113	i	17, 18	<i>Trichotropis costellatus</i> Couth.	Mass. bay.
114	i	19, 20	<i>Nucula Portlandica</i> Hitch., fossil.	Maine.
116	iii	7	<i>Ampullaria scalaris</i> D'Orb. <i>A. angulata</i> Jay.	Mexico.
118	v	1, 2	<i>Unio spinosus</i> Lea.	Georgia.
122	vii	11	<i>Melania læta</i> Jay.	Alabama.

Bland.—Facts and Principles relating to the Origin and Geographical Distribution of Mollusca: by THOS. BLAND, F. G. S. London. (From Am. Journal Science and Art, 2d series, vol. xiv, No. 42, pp. 389–404. November, 1852.)

Lapham.—Catalogue of the Mollusca of Wisconsin: by I. A. LAPHAM. (From Trans. Wise. State Agricultural Soc., vol. ii. Madison, Wise., 1852.) [Without descriptions.]

ORDER GASTEROPODA.

Page		Page.	
367	<i>Ancylus rivularis</i> Say.	367	<i>Helix hirsuta</i> Say.
367	<i>diaphanus</i> Hald.	367	<i>labyrinthica</i> Say.
367	<i>Vitrina pellucida</i> Drap.	367	<i>lineata</i> Say.
367	<i>Helix albolabris</i> Say.	367	<i>ligera</i> Say.
367	<i>alternata</i> Say.	367	<i>monodon</i> Rackett.
367	<i>arborea</i> Say.	367	<i>multilineata</i> Say.
367	<i>chersina</i> Say.	367	<i>perspectiva</i> Say.
367	<i>concava</i> Say.	367	<i>profunda</i> Say.
367	<i>fraterna</i> Say.	367	<i>porcina</i> Say.

Page.		Page.	
367	Pupa armifera Say.	368	Limnea columella Say.
367	corticaria Say.		<i>L. macrostoma</i> Say.
367	ovata Say.	368	emarginata Say.
	<i>P. modesta.</i>	368	fragilis Linn.
367	Succinea obliqua Say.		<i>L. elodes</i> Say.
367	avara Say.	368	gracilis Say.
368	Bulimus lubricus Brug.	368	jugularis Say.
368	harpa Pfeiffer.		<i>L. stagnalis</i> Kirtland.
	<i>Helix harpa</i> Say.	368	megasoma Say.
368	Planorbis armigerus Say.	368	umbrosa Say.
368	bicarinatus Say.	368	Physa heterostropha Say.
368	campanulatus Say.	368	elongata Say.
368	corpulentus Say.	368	Paludina decisa Say.
368	deflectus Say.	368	isogona Say.
368	exacutus Say.	368	subglobosa Say.
368	parvus Say.	368	Amnicola limosa Say.
368	trivolis Say.	368	lustrica Say.
368	Limnea caperata Say.	368	Melania depygis Say.
	<i>L. umbilicata</i> Adams.	368	elevata Say.
368	catascopium Say.	368	Valvata tricarinata Say.
		368	sincera Say.

ORDER ACEPHALA.

369	Unio bullatus Raf.	369	Unio nervosus Raf.
	<i>U. pustulosus</i> Lea.		<i>U. zig-zag</i> Lea.
369	cardium Raf.		<i>donaciformis</i> Lea.
	<i>U. ventricosus</i> Barnes.	369	olivarius Raf.
369	cariosus Say.		<i>U. ellipsis</i> Lea.
369	clava Lam.	369	parvus Barnes.
	<i>U. mytiloides</i> Raf.	369	prasinus Conrad.
369	dilatus Raf.		<i>U. Schoolcraftensis</i> Lea.
	<i>U. gibbosus</i> Barnes.	369	radiatus Lam.
369	fasciolaris Raf.	369	rectus Lam.
	<i>U. phaseolus</i> Hildreth.		<i>U. praelongus</i> Barnes.
	<i>mucronatus</i> Barnes.	369	reflexus Raf.
369	fasciatus Raf.		<i>U. cornutus</i> Barnes.
	<i>U. crassus</i> Barnes.	369	subrostratus Raf.
	<i>ellipticus</i> Barnes.		<i>U. iris</i> Lea.
	<i>carinatus</i> Barnes.	369	trigonus Lea.
369	luteolus Lam.	369	truncatus Raf.
	<i>U. siliquoides</i> Barnes.		<i>U. elegans</i> Lea.
	<i>inflatus</i> Barnes.	369	tuberculatus Raf.
369	metanevrus Raf.		<i>U. verrucosus</i> Barnes.
	<i>U. nodosus</i> Barnes.	369	undatus Barnes.

Page.		Page.	
369	Unio verrucosus Raf. <i>U. tuberculatus</i> Barnes.	370	Alasmodonta marginata S.
369	Metaptera alata Conrad. <i>Unio alatus</i> Say.	370	leptodon Raf. <i>Unio planus</i> Barnes.
369	fragilis Conrad. <i>Unio fragilis</i> Say. <i>gracilis</i> Barnes.	370	Strophites calceolus Contr. <i>Unio calceolus</i> Lea.
369	Plectomerus plicatus Contr. <i>Unio plicatus</i> Barnes.	370	edentulus Conrad. <i>Alasmodonta edentula</i> Say.
370	Complanaria complanata Conrad. <i>Alasmodonta complanata</i> Barnes.	370	Anodonta cataracta Say. <i>A. fluvitilis</i> Lea.
370	costata Conrad. <i>Alasmodonta costata</i> Raf. <i>rugosa</i> Bar.	370	declivis Conrad. <i>A. plana</i> Lea.
370	compressa Conrad. <i>Symphynota compressa</i> Lea.	370	Ferussaciana Lea.
		370	imbecilis Say. <i>A. incerta</i> Lea.
		370	Cyclas similis Say.

Lea.—A Synopsis of the Family of Naiades: by ISAAC LEA, Member of the Amer. Phil. Soc., &c. Third edition, greatly enlarged and improved. Philadelphia, 1852.¹

GENUS MARGARON.

Subgenus **Unio**.

Page.		Page.	
	(SYMPHYNOTE.)		<i>Lymnadia alata</i> Sowb.
19	Unio Nicklinianus Lea.		<i>Metaptera alata</i> Stimp.
19	Boykinianus Lea.	19	Unio lævissimus Lea.
19	inflatus Lea. <i>Symph. inflata</i> Lea. <i>U. Alabamensis</i> Conrad.		<i>Symph. lævissima</i> Lea.
19	alatus Say. <i>Mya alata</i> Wood. <i>Symph. alata</i> Lea.	19	gracilis Barnes. <i>U. planus</i> Barnes.
			<i>fragilis</i> Swain.
			<i>Symph. gracilis</i> Lea.

¹ There is also, in the marginal notes, much information regarding the synonymy which is not given in a shape convenient to embody in my extract. As no localities are given, I have taken only those species which are repeated by Mr. Lea in the North American sections of his geographical tables. Mr. Lea published three editions of this Synopsis, in the Transactions of the Philosophical Society (q. v.), in 1836 and in 1852. The last two now follow.—W. G. B.

Page.		Page.	
	<i>Metaptera gracilis</i> Stimp.	21	Unio trapezoides Lea.
19	Unio pressus Lea.		<i>U. crassidens</i> Lam. var. a.
	<i>Symph. compressa</i> Lea.		<i>interruptus</i> Say.
	<i>Complanaria alasmodon-</i>	21	subtentus Say.
	<i>tina</i> Stimpson.	21	Conradicus Lea.
	<i>U. compressus</i> Conrad.	21	acutissimus Lea.
19	decoratus Lea.		(b. <i>Nodulosus.</i>)
19	atromarginatus Lea.		
	(Non-symphynote.)	21	lachrymosus Lea.
	(a. <i>Plicate.</i>)	21	asperrimus Lea.
20	multiplicatus Lea.		<i>U. quadrulus</i> Say.
	<i>U. heros</i> Say.	21	Rumphianus Lea.
	<i>undulatus</i> Say.	22	fragosus Conrad.
20	undulatus Barnes.	22	Phillipsii Conrad.
	<i>U. costata?</i> Raf.	22	Cincinnatiensis Lea.
	<i>costatus</i> Conrad.	22	pustulatus Lea.
20	perplicatus Conrad.		<i>U. undulatus</i> Conrad.
20	atrocostatus Lea.	22	Schoolcraftensis Lea.
20	plicatus Lesueur.		<i>U. prasinus</i> Conrad.
	<i>U. Peruviana</i> Lam.		<i>nodiferus</i> Conrad.
	<i>rariplicata</i> Lam.	22	apiculatus Say.
	<i>Dombeyanus</i> Valen.	22	asper Lea.
	<i>undulata</i> Desh.	22	Dorfeuillianus Lea.
	<i>multiplicata</i> Desh.	22	stapes Lea.
	<i>crassus</i> Barnes.	22	tuberosus Lea.
	<i>undulatus</i> Conrad.	22	sparsus Lea.
20	infucatus Conrad.	22	metanevrus Raf.
	<i>U. securiformis</i> Conrad.		<i>U. nodosus</i> Barnes.
20	Kleinianus Lea.		<i>rugosus</i> Barnes.
20	foliatus Hild.		<i>Telederma metanevra</i> Sw.
	<i>U. flexuosa?</i> Raf.	22	intermedius Conrad.
	<i>U. flexuosus</i> Conrad.	22	cornutus Barnes.
	<i>foliatus</i> Conrad.		<i>U. reflexa?</i> Raf.
20	cælatus Conrad.		<i>reflexus</i> Conrad.
20	Stewardsonii Lea.	22	pustulosus Lea.
20	pliciferus Lea.		<i>U. verrucosus</i> Barnes.
	<i>U. carbonarius</i> Lea.		<i>verrucosa</i> Valen.
	<i>plexus</i> Conrad.		<i>verrucosus albus</i> Say.
20	semigranosis V. d. Busch.		<i>bullatus</i> Conrad.
21	laticostatus Lea.	22	Keinerianus Lea.
21	hippopæus Lea.	22	turgidus Lea.
21	Sloatianus Lea.		<i>U. Mortoni</i> Conrad.
	<i>U. plectoformis</i> Conrad.	22	Cooperianus Lea.

Page.

- 22 **Unio verrucosus** Barnes.
U. tuberculata? Raf.
tuberculosa Valen.
verrucosus purpureus Hild.
tuberculatus Conrad.
- 22 **graniferus** Lea.
 (Errata) **pernodosus** Lea.
 22 **irroratus** Lea.
U. verrucosus albus Hild.
stegarius Conrad.
- 22 **caperatus** Lea.
U. abacoides Hald.
- 23 **dromas** Lea.
 23 **Lamarckianus** Lea.
 23 **Æsopus** Green.
U. cicatricosus Conrad.
varicosus Conrad.
cyphus Conrad.
- 23 **varicosus** Lea.
U. cicatricosus? Say.
cicatricosus Conrad.
- 23 **perplexus** Lea.
U. gibbosus? Raf.
gibbosus Conrad.
- 23 **tuberculatus** Barnes.
U. pustulata Swain.
- 23 **cylindricus** Say.
U. naviformis Lam.
 (c. *Spinous*.)
- 23 **spinus** Lea.
 23 **collinus** Conrad.
 (d. *Smooth*.)
- 23 **arcæformis** Lea.
U. nexus Say.
- 23 **triangularis** Barnes.
U. formosus Lea.
cuneatus Swain.
- 23 **Foremanianus** Lea.
 23 **elegans** Lea.
U. truncatus Say.
- 24 **donaciformis** Lea.
 24 **zigzag** Lea.
 24 **heterodon** Lea.

Page.

- 24 **Unio penitus** Conrad.
 24 **Estabrookianus** Lea.
 24 **securis** Lea.
U. depressa (?) Raf.
lineolatus Say.
- 24 **abacus** Hald.
 24 **camelus** Lea.
 24 **compressissimus** Lea.
 24 **ovatus** Say.
U. ventricosus Desh.
subovatus Desh.
occidens Desh.
Æglia ovata Swain.
- 24 **satur** Lea.
 24 **subovatus** Lea.
 24 **crassidens** Lam.
U. cuneatus Barnes.
niger? Raf.
niger Conrad.
- 24 **incrassatus** Lea.
 24 **Forbesianus** Lea.
 24 **gibber** Lea.
 24 **pumilis** Lea.
 24 **rubiginosus** Lea.
U. flavus Conrad.
cerinus Conrad.
- 24 **Bigbyensis** Lea.
 24 **maculatus** Conrad.
 24 **Barnesianus** Lea.
 24 **cuneolus** Lea.
 24 **pileus** Lea.
 25 **Sowerbianus** Lea.
 25 **trigonus** Lea.
 25 **cyrenoides** Phil.
 25 **Holstonensis** Lea.
 25 **tumescens** Lea.
 25 **fulgidus** Lea.
 25 **solidus** Lea.
 25 **obliquus** Lam.
U. undulatus Barnes.
trigonus Say.
mytiloides Eat.
undulatus Desh.
cordatus? Raf.
cordatus Conrad.
cardiacea Guérin.

Page.

- 25 **Unio plenus** *Lea.*
 25 **pyramidatus** *Lea.*
 U. rubra? Raf.
 mytiloides Conrad.
 cardiacea Desh.
 25 **Bournianus** *Lea.*
 25 **Edgarianus** *Lea.*
 25 **mytiloides** Raf.
 Mya obliqua Wood.
 Uniopsis mytiloides Swain.
 25 **Troostensis** *Lea.*
 U. trabalis Conrad.
 25 **trossulus** *Lea.*
 25 **Taitianus** *Lea.*
 23 **cor** Conrad.
 26 **Hanleyianus** *Lea.*
 26 **decisus** *Lea.*
 26 **clavus** Lam.
 U. scalenia
 modioliformis Say.
 26 **patulus** *Lea.*
 26 **oviformis** Conrad.
 26 **argenteus** *Lea.*
 26 **Ravenelianus** *Lea.*
 U. rudis Conrad.
 26 **Troschelianus** *Lea.*
 26 **strictus** *Lea.*
 26 **Rangianus** *Lea.*
 U. gibbosus Küst.
 26 **sulcatus** *Lea.*
 U. ridibundus Say.
 26 **Haysianus** *Lea.*
 26 **ellipsis** *Lea.*
 U. brevis Sowb.
 26 **castaneus** *Lea.*
 26 **pulvinulus** *Lea.*
 26 **Tampicoensis** *Lea.*
 26 **Lecontianus** *Lea.*
 U. contrarius Conrad.
 26 **hebes** *Lea.*
 26 **perdix** *Lea.*
 U. pectorosus Conrad.
 26 **ventricosus** Barnes.
 U. radiatus Hild.
 Lampsilis ventricosa Stimp.

Page.

- 26 **Unio occidentens** *Lea.*
 U. ventricosus Say.
 lenis (junior) Conrad.
 cardium Conrad.
 27 **lineatus** *Lea.*
 27 **dolabraeformis** *Lea.*
 27 **capax** Green.
 Symph. globosa Lea.
 27 **splendidus** *Lea.*
 27 **ochraceus** Say.
 Symph. ochracea Lea.
 U. rosaceus Conrad.
 Lampsilis ochracea Stimp.
 27 **stagnalis** Conrad.
 U. Ogecheensis Conrad.
 27 **Clarkianus** *Lea.*
 27 **crocatus** *Lea.*
 27 **affinis** *Lea.*
 27 **cariosus** Say.
 U. cariosa Lam.
 ovata Valen.
 luteola Conrad.
 oratus Conrad.
 Lampsilis cariosa Stimp.
 27 **Georgianus** *Lea.*
 27 **perovatus** Conrad.
 27 **altilis** Conrad.
 27 **multiradiatus** *Lea.*
 U. fasciola? Raf.
 fasciolus Conrad.
 ligamentina Desh.
 27 **Novi-Eboraci** *Lea.*
 27 **saxeus** Conrad.
 27 **perovalis** Conrad.
 27 **capsæformis** *Lea.*
 27 **Greenii** Conrad.
 27 **pictus** *Lea.*
 27 **pallescens** *Lea.*
 27 **Tennesseensis** *Lea.*
 27 **simplex** *Lea.*
 27 **flavescens** *Lea.*
 27 **interruptus** *Lea.*
 U. tenuatus? Conrad.
 latiradiatus Conrad.

Page.		Page.	
27	Unio Menkianus <i>Lea.</i>	29	Unio Nashvillianus <i>Lea.</i>
27	Stonensis <i>Lea.</i>	29	Mississippiensis <i>Conrad.</i>
27	venustus <i>Lea.</i>	29	Zeiglerianus <i>Lea.</i>
27	exiguus <i>Lea.</i>	29	lienosis <i>Conrad.</i>
27	Tecomatensis <i>Lea.</i>	29	constrictus <i>Conrad.</i>
28	spatulatus <i>Lea.</i>	29	placitus <i>Lea.</i>
28	ligamentinus <i>Lam.</i>	29	buxeus <i>Lea.</i>
	<i>U. crassus</i> <i>Say.</i>	29	concavus <i>Lea.</i>
	<i>ellipticus</i> <i>Barnes.</i>	29	obscurus <i>Lea.</i>
	<i>carinatus</i> <i>Barnes.</i>	29	proximus <i>Lea.</i>
	<i>Mya gravis</i> <i>Wood.</i>	29	nitens <i>Lea.</i>
	<i>U. fasciatus</i> <i>Conrad.</i>	29	Gouldii <i>Lea.</i>
28	orbiculatus <i>Hild.</i>	29	Moussonianus <i>Lea.</i>
	<i>U. abruptus</i> <i>Say.</i>	29	Monroensis <i>Lea.</i>
	<i>crassus</i> <i>Conrad.</i>	29	caliginosus <i>Lea.</i>
28	Hydianus <i>Lea.</i>	29	Binneyi <i>Lea.</i>
28	approximus <i>Lea.</i>	30	Bucklyi <i>Lea.</i>
28	Claibornensis <i>Lea.</i>	30	fuscatus <i>Lea.</i>
28	Powellii <i>Lea.</i>	30	occultus <i>Lea.</i>
28	Reeveianus <i>Lea.</i>	30	luridus <i>Lea.</i>
28	luteolus <i>Lam.</i>	30	nigellus <i>Lea.</i>
	<i>U. siliquoides</i> <i>Barnes.</i>	30	Cumberlandianus <i>Lea.</i>
	<i>inflatus</i> <i>Barnes.</i>		<i>U. Cumberlandicus</i> <i>Chenu.</i>
	<i>melinus</i> <i>Conrad.</i>	30	vibex <i>Conrad.</i>
	<i>rosaceus</i> <i>De Kay.</i>	30	Muhlfeldianus <i>Lea.</i>
	<i>Lampsilis siliquoides</i> <i>St.</i>	31	creperus <i>Lea.</i>
28	stramineus <i>Conrad.</i>	31	glaber <i>Lea.</i>
28	aratus <i>Lea.</i>	31	fabalis <i>Lea.</i>
28	pulcher <i>Lea.</i>		<i>U. capillus</i> <i>Say.</i>
28	tener <i>Lea.</i>		<i>lapillus</i> <i>Say.</i>
29	Prevostianus <i>Lea.</i>	31	paulus <i>Lea.</i>
29	radiatus <i>Lam.</i>	31	pusillus <i>Lea.</i>
	<i>U. Virginiana</i> <i>Lam.</i>	31	parvus <i>Barnes.</i>
	<i>Mya radiata</i> <i>Gmel.</i>	31	Haleianus <i>Lea.</i>
	<i>oblongata</i> <i>Wood.</i>	31	nigerrimus <i>Lea.</i>
	<i>pictorum tenuis</i> <i>Chem.</i>	31	minor <i>Lea.</i>
	<i>Lampsilis radiata</i> <i>Stimp.</i>	31	glans <i>Lea.</i>
29	regularis <i>Lea.</i>	31	nux <i>Lea.</i>
29	amoenus <i>Lea.</i>	31	Brumbyanus <i>Lea.</i>
29	Sapotalensis <i>Lea.</i>	31	mæstus <i>Lea.</i>
29	Oregonensis <i>Lea.</i>	31	pullus <i>Conrad.</i>
29	Medellinus <i>Lea.</i>	31	ineptus <i>Lea.</i>
29	notatus <i>Lea.</i>	31	discus <i>Lea.</i>
29	subangulatus <i>Lea.</i>		<i>U. Punaccoensis</i> <i>V. d. Busch.</i>
29	Vanuzemensis <i>Lea.</i>	31	simus <i>Lea.</i>

Page.		Page.	
32	Unio brevidens <i>Lea.</i>	33	Unio fulvus <i>Lea.</i>
	<i>U. interruptus</i> Conrad.		<i>U. icterinus</i> Conrad.
32	tetralasmus <i>Say.</i>	33	rufusculus <i>Lea.</i>
32	campodon <i>Say.</i>	33	Gibbesianus <i>Lea.</i>
	<i>U. declivis</i> Conrad.	33	sordidus <i>Lea.</i>
	<i>Sayii</i> Tappan.	33	Dariensis <i>Lea.</i>
	<i>rhomboidius</i> Ward, MS.	33	Congaræus <i>Lea.</i>
32	obesus <i>Lea.</i>	33	neglectus <i>Lea.</i>
32	Hopetonensis <i>Lea.</i>	33	subplanus Conrad.
32	fraternus <i>Lea.</i>	33	declivis <i>Say.</i>
32	Cuverianus <i>Lea.</i>		<i>U. geometricus</i> <i>Lea.</i>
32	Roanokensis <i>Lea.</i>		<i>excultus</i> Conrad.
32	jejunus <i>Lea.</i>	33	paludicolus Gould.
32	complanatus <i>Lea.</i>	33	Blandingianus <i>Lea.</i>
	<i>Mya complanata</i> Soland.	34	famelicus Gould.
	<i>rigida</i> Wood.	34	circulus <i>Lea.</i>
	<i>U. violaceus</i> Spangler.		<i>Mya rotunda?</i> Wood.
	<i>purpureus</i> <i>Say.</i>	34	lens <i>Lea.</i>
	<i>rarisulcata</i> Lam.	34	unicolor <i>Lea.</i>
	<i>coarctata</i> Lam.	34	rubellus Conrad.
	<i>purpurascens</i> Lam.	34	Masoni Conrad.
	<i>rhombula</i> Lam.	34	rotundatus Lam.
	<i>carinifera</i> Lam.		<i>U. suborbiculata</i> Lam.
	<i>Georgina</i> Lam.		<i>glebulus</i> <i>Say.</i>
	<i>glabrata</i> Lam.		<i>subglobosus</i> <i>Lea.</i>
	<i>sulcidens</i> Lam.	35	personatus <i>Say.</i>
	<i>fluvialis</i> Green.		<i>U. capillaris</i> <i>Lea.</i>
	<i>subinflata</i> Conrad.	35	retusus Lam.
	<i>planilaterus</i> Conrad.		<i>U. torsa</i> Raf.
32	symmetricus <i>Lea.</i>		<i>obtusa</i> Cuvier.
32	limatulus Conrad.		<i>cordatus</i> (fem.) Küst.
32	Buddianus <i>Lea.</i>	35	ebenus <i>Lea.</i>
33	Griffithianus <i>Lea.</i>		<i>U. mytiloides</i> Conrad.
33	confertus <i>Lea.</i>		<i>obliquus</i> Conrad.
33	Geddingsianus <i>Lea.</i>		<i>Gouldianus</i> Ward.
33	Whiteianus <i>Lea.</i>	35	Lesuerianus <i>Lea.</i>
33	fuliginosus <i>Lea.</i>	35	nucleopsis Conrad.
33	paliatus Ravenel's letter.	35	Kirtlandianus <i>Lea.</i>
33	Tuomeyi <i>Lea.</i>	35	pilaris <i>Lea.</i>
33	callosus <i>Lea.</i>	35	dollabelloides <i>Lea.</i>
33	tortivus <i>Lea.</i>	35	subrotundus <i>Lea.</i>
33	occidentalis Conrad.		<i>U. politus?</i> <i>Say.</i>
33	Watereensis <i>Lea.</i>		<i>brevialis?</i> Crouch.
	<i>U. Raveneli</i> Conrad.		<i>politus</i> Conrad.

Page.

- 35 **Unio coccineus** Lea.
U. coccineus Hildreth's
letter, Conrad.
catillus Conrad.
cuneus? Conrad.
- 35 **Shepardianus** Lea.
- 35 **Duttonianus** Lea.
- 35 **folliculatus** Lea.
- 35 **rectus** Lam.
U. praelongus Barnes.
recta Valen.
Sageri Conrad.
Mya praelonga Wood.
Eurynea praelonga Stimp.
- 36 **strigosus** Lea.
- 36 **perstriatus** Lea.
- 36 **angustatus** Lea.
- 36 **dactylus** Lea.
- 36 **lanceolatus** Lea.
- 36 **anodontoides** Lea.
U. teres? Raf.
teres Conrad.
- 37 **productus** Conrad.
- 37 **sagittiformis** Lea.
- 37 **nasutus** Say.
U. rostratus Valen.
Mya nasuta Wood.
U. subrostratus? Say.
Eurynea nasuta Stimp.
- 37 **Barrattii** Lea.
- 37 **Fisherianus** Lea.
- 37 **aheneus** Lea.
- 37 **Jayensis** Lea.
- 38 **lugubris** Lea.
- 38 **iris** Lea.
U. nebulosus Conrad.
- 38 **fatuus** Lea.
- 38 **tenuissimus** Lea.
Symph. tenuissimq Lea.
An. purpurascens Swain.
U. velum Say.
leptodon Conrad.
planus Conrad.

Page.

- 38 **Unio phaseolus** Hild.
U. planulatus Lea.
cuneatus Barnes.
- 38 **arcus** Conrad.
- 38 **arctatus** Conrad.
- 38 **gibbosus** Barnes.
U. mucronatus Barnes.
nasuta Lam.
dilatata? Raf.
dilatatus Conrad.
- 38 **arctior** Lea.
- 38 **Vaughanianus** Lea.
U. Carolinensis Rav. let.
- 38 **purpuratus** Lam.
Mya ventricosa Solan.
U. ater Lea.
lugubris Say.
Poulsoni Conrad.
- 38 **biangulatus** Lea.
- 38 **cuprinus** Lea.
U. metallicus Say.
- 38 **papyraceus** Gould.
- 38 **Boydianus** Lea.
- 39 **modioliformis** Lea.
U. delumbis Conrad.
- 39 **Floridensis** Lea.
- 39 **tenerus** Rav.
U. tenebrosus Conrad.
- 39 **pellucidus** Lea.
- 39 **amygdalum** Lea.
- 39 **lenior** Lea.
- 39 **hyalinus** Lea.
- 39 **nigrinus** Lea.
- 39 **Tappanianus** Lea.
U. viridis Conrad.
- 39 **contradens** Lea.
- 39 **obtusus** Lea.
- 39 **monodontus** Say.
U. soleniformis Lea.
- 39 **Lazarus** Lea.

[Here follows a list of species with which the author is unacquainted. No habitats being given, I cannot be sure of any being American, but presume the following to be so.—W. G. B.]

Page.		Page.	
39	Unio Aberti Conrad.	40	Unio parallelus Conrad.
40	fervus Conrad.	40	Pequottinus Linsl.
40	metastriatus Conrad.	40	punicus Hald.
40	Mexicanus Phil.	40	purpuratus Say.

Subgenus **Margaritana**.

(SYMPHYNOTE.)		42	Margaritana undulata Lea.
(a. Plicate.)			<i>Alas. undulata</i> Say.
42	Margaritana complanata Lea.		<i>sculptilis</i> (jun.) Say.
	<i>Alas. complanata</i> Barnes.		<i>Strophitus sculptilis</i> Stim.
	<i>Symph. complanata</i> Lea.		<i>Mya undulata</i> Wood.
	<i>Unio complanata</i> Desh.		<i>Unio hians</i> Valen.
	<i>Katherina</i> Lea.		<i>glabratus</i> Sowb.
(NON-SYMPHYNOTE.)		42	Raveneliana Leu.
(a. Plicate.)		43	radiata Lea.
			<i>Alas. radiata</i> Conrad.
			<i>Unioopsis radiata?</i> Swain.
42	confragosa Lea.	43	calceola Lea.
	<i>Alas. confragosa</i> Say.		<i>Unio calceolus</i> Lea.
	<i>Unio confragosa</i> Desh.		<i>Alas. marginata</i> Say.
42	arcula Lea.		<i>truncata</i> Conrad.
42	marginata Lea.	43	Hildrethiana Lea.
	<i>Alas. marginata</i> Say.		<i>Unio Hildrethianus</i> Lea.
	<i>truncata</i> Say.		<i>Alas. ambigua?</i> Say.
	<i>Unio cariosa</i> Lam. (var. 2.)	43	dehiscens Lea.
	<i>varicosa</i> Lam.		<i>Unio dehiscens</i> Say.
	<i>calceolus</i> Say.		<i>oriens</i> Lea.
	<i>Mya regulosa</i> Wood.	43	margaritifera Lea.
	<i>Alas. corrugata</i> De Kay.		<i>M. fluviatilis</i> Schum.
42	rugosa Lea.		<i>arcuata</i> Stimpson.
	<i>Alas. rugosa</i> Barnes.		<i>Unio Carolinianus</i> Bosc.
	<i>abducta</i> Say.		<i>Alas. arcuata</i> Barnes.
	<i>Complanaria rugosa</i> Stim.		<i>falcata</i> Gould.
(b. Smooth.)		44	Holstonia Lea.
42	deltoidea Lea.	44	fabula Lea.
42	minor Lea.		(Unknown.)
42	Curreyana Lea.	44	Etowaensis Conrad.

Subgenus **Anodonta**.

(SYMPHYNOTE.)		47	Anodonta Benedictensis Lea.
(a. Smooth.)			<i>Symph. Benedictensis</i> Lea.
47	Anodonta Wahlamatensis		<i>A. cultratus</i> Gould.
	Lea.	47	Nuttalliana Lea.

Page.		Page.	
47	Anodonta Californiensis Lea. (Non-Symphynote.) (b. Smooth)	50	Anodonta fluviatilis Lea. <i>Myt. fluviatilis</i> Dill. <i>illitus</i> Soland? <i>A. cataracta</i> Say. <i>marginata</i> Say. <i>teres</i> Conrad. <i>Unio cataracta</i> Desh.
49	Oregonensis Lea. <i>A. cognata</i> Gould.	50	opaca Lea.
49	Pepiniana Lea.	50	Arkansensis Lea.
49	fragilis Lam.	50	glauca Valen. <i>A. glauca</i> Lam. <i>ovatus</i> Swain.
49	Footiana Lea.	50	ovata Lea.
49	undulata Say. <i>Anodon rugosus</i> Swain. <i>Anodonta Pennsylvanica</i> Lam.	50	plana Lea. <i>A. declivis</i> Conrad.
	<i>Unio undulata</i> Desh.	50	decora Lea.
	<i>Alas. marginata</i> Küst.	50	Harpethensis Lea.
	<i>Strophitus undulatus</i> Stim.	50	gigantea Lea.
49	Wardiana Lea. <i>A. virgata</i> Conrad.	50	subvexa Conrad.
49	edentula Lea. <i>Alas. edentula</i> Say. <i>An. areolatus</i> Swain. <i>unadilla</i> De Kay.	51	Stewartiana Lea.
50	pavonia Lea.	51	virens Lea.
50	Ferussaciana Lea. <i>Alas. Ferussaciana</i> Küst.	51	gibbosa Say. <i>A. inflata</i> Major Leconte's cabinet.
50	denigrata Lea.	51	Couperiana Lea.
50	oblita Lea.	51	grandis Say. <i>A. corpulenta</i> Coop.
50	argentea Lea.	51	tetragona Lea.
50	ferruginea Lea.	51	Shaefferiana Lea.
50	salmonia Lea.	51	suborbiculata Say.
50	imbecilis Say. <i>A. incerta</i> Lea.	51	Linnaeana Lea.
50	implicata Say. <i>A. Newtonensis</i> Lea. <i>excurvata</i> De Kay.	51	cylindracea Lea.
		51	subcylindracea Lea.
		51	Buchanensis Lea.
		52	angulata Lea. <i>A. feminalis</i> .

[I presume the following to be the only American species in the list of those unknown to the author.—W. G. B.]

Page.		Page.	
53	Anodonta impura Say.	53	Anodonta placitus Hald.
53	lugubris Say.		

[The following species of Rafinesque are omitted by Mr. Lea from his Synopsis, he not having been able to determine them. I give them all, not knowing if any foreign species are included.—W. G. B.]

Page.

57	Alasmodonta atropurpureum Raf.?
57	badium Raf.?
57	costata Raf.?
57	hians Raf.?
57	ponderosum Raf.?
57	papyraceum Raf.?
57	rugosum Raf.?
57	sulcatum Raf.?
57	scriptum Raf.?
57	viridis Raf.?
57	Anodonta atra Raf.?
57	aperta Raf.?
57	cuneata Raf.?
57	digonota Raf.?
57	inflata Raf.?
57	lata Raf.?
57	Ohiensis Raf.?
57	solenoides Raf.?
57	Unio antrosa Raf.?
57	atroviolacea Raf.?
57	argyratus Raf.?
57	attenuata Raf.?
57	aurata Raf.?
57	bicolor Raf.?
57	bullata Raf.?
57	biloba Raf.?
57	cardium Raf.?
57	Cliffordiana Raf.?
57	calendis Raf.?
57	chloris Raf.?
57	castaneus Raf.?
57	costata Raf.?
57	crassa Raf.?
57	cinerescens Raf.?
57	cordata Raf.?
57	cuneata Raf.?
57	cyclips Raf.?
57	cuprea Raf.?
57	cyphia Raf.?
57	decorticata Raf.?

Page.

57	Unio depressa Raf.?
57	diploderma Raf.?
57	diaphanus Raf.?
57	dilatata Raf.?
57	ellipsaria Raf.?
57	elliptica Raf.?
57	fasciata Raf.?
57	fulvus Raf.?
57	fontinalis Raf.?
57	fulgens Raf.?
57	fasciola Raf.?
57	fasciolaris Raf.?
57	flava Raf.?
57	flexuosa Raf.?
57	flexus Raf.?
57	fragilis Raf.?
57	gibbosa Raf.?
57	granulatus Raf.?
57	interrupta Raf.?
57	lateralis Raf.?
57	latissima Raf.?
57	leptodon Raf.?
57	laevigata Raf.?
57	lamobrachys Raf.?
57	lineolata Raf.?
57	lividus Raf.?
57	megaptera Raf.?
58	montanus Raf.?
58	melaplata Raf.?
58	nervosa Raf.?
58	nigra Raf.?
58	nodulata Raf.?
58	obliquata Raf.?
58	obovalis Raf.?
58	olivaria Raf.?
58	ovata Raf.?
58	Paphos Raf.?
58	pachostea Raf.?
58	ponderosus Raf.?
58	pallida Raf.?
58	plateolus Raf.?

Page.		Page.	
58	Unio pusella Raf.?	58	Unio teres Raf.?
58	pallens Raf.?	58	triangularis Raf.?
58	perplexus Raf.?	58	triqueter Raf.?
58	quadrula Raf.?	58	truncata Raf.?
58	reflexa Raf.?	58	tuberculata Raf.?
58	retusa Raf.?	58	verrucosa Raf.?
58	rimosus Raf.?	58	viridis Raf.?
58	rosea Raf.?	58	vittatus Raf.?
58	rivularis Raf.?	58	Venus Raf.?
58	stegaria Raf.?	58	zonalis Raf.?
58	sintoxia Raf.?	58	Odatelia radiata Raf.?
58	sinuata Raf.?	58	Lasmonos fragalis Raf.?
58	solenoides Raf.?	58	Diplasma marginatæ Raf.?
58	striata Raf.?	58	similis Raf.?
58	subrotunda Raf.?	58	vitrea Raf.?
58	torulosa Raf.?	58	striata Raf.?
58	teneltus Raf.?		

Lea.—Synopsis, &c. Second edition, 1836. With a frontispiece of *Unio spinosus*.

GENUS MARGARITA.

Subgenus **Unio**.

Page.		Page.	
	(SYMPHYNOTE.)	12	Unio cœlatus Conrad.
	(b. Smooth.)	12	multiplicatus Lea.
11	Unio inflatus Lea.		<i>U. heros</i> Say.
	<i>Symph. inflata</i> Lea.		<i>undulatus</i> Say.
11	alatus Say.	12	undulatus Barnes.
	<i>U. alatus</i> Say.		<i>U. costata</i> ? Raf.
	<i>Mya alata</i> Wood.		<i>costatus</i> Conrad.
	<i>Symph. alata</i> Lea.	12	plicatus Lesueur.
11	lævissimus Lea.		<i>U. Peruviana</i> Lam.
	<i>Symph. lævissima</i> Lea.		<i>rariplacata</i> Lam.
	<i>U. lævissima</i> Deshayes.		<i>Dombeyanus</i> Valen.
11	gracilis Barnes.		<i>undulata</i> Desh.
	<i>U. planus</i> Barnes.		<i>multiplicata</i> Desh.
	<i>fragilis</i> Swain.	12	trapezoides Lea.
	<i>Symph. gracilis</i> Lea.		<i>U. erassidens</i> Lam., var. a.
11	compressus Lea.		<i>interruptus</i> Say.
	<i>Symph. compressa</i> Lea.	13	foliatus Hild.
	(NON-SYMPHYNOTE.)		<i>U. flexuosa</i> ? Raf.
	(a. Plicate.)		<i>flexuosus</i> Conrad.
12	Nicklinianus Lea.		<i>foliatus</i> Conrad.

Page.		Page.	
13	Unio pliciferus Lea.	17	Unio varicosus Lea.
13	subtentus Say.		<i>U. cicatricosus?</i> Say.
13	Conradicus Lea.	17	perplexus Lea.
14	acutissimus Lea.		<i>U. gibbosus?</i> Raf.
	(b. <i>Nodulosus.</i>)		<i>gibbosus</i> Conrad.
14	lachrymosus Lea.	17	tuberculatus Barnes.
14	asperrimus Lea.	17	cylindricus Say.
	<i>U. quadrulus</i> Say.		<i>U. naviformis</i> Lam.
14	fragrosus Conrad.		(c. <i>Spinous.</i>)
15	Phillipsii Conrad.	17	spinous Lea.
15	pustulatus Lea.		(d. <i>Smooth.</i>)
15	Schoolcraftensis Lea.	18	arcæformis Lea.
	<i>U. prasinus</i> Conrad.		<i>U. nexus</i> Say.
15	apiculatus Say.	18	triangularis Barnes.
15	asper Lea.		<i>U. formosus</i> Lea.
15	stapes Lea.		<i>cuneatus</i> Swain.
15	metanever Lea.	18	elegans Lea.
	<i>U. metanevra</i> Raf.	18	donaciformis Lea.
	<i>nodosus</i> Barnes.	18	zigzag Lea.
	<i>rugosus</i> Barnes.	18	heterodon Lea.
	<i>metanevra</i> Conrad.	19	penitus Conrad.
15	cornutus Barnes.	19	securis Lea.
	<i>U. reflexa?</i> Raf.		<i>U. depressa</i> Raf.
	<i>reflexus</i> Conrad.	19	camelus Lea.
15	pustulosus Lea.	19	ovatus Say.
	<i>U. verrucosus</i> Bar., var. b.		<i>U. ventricosus</i> Desh.
	<i>verrucosa</i> Valen.		<i>subovatus</i> Desh.
	<i>verrucosus albus</i> Say.		<i>occidens</i> Desh.
16	turgidus Lea.	19	subovatus Lea.
	<i>U. Mortoni</i> Conrad.	19	crassidens Lam.
16	Cooperianus Lea.		<i>U. cuneatus</i> Barnes.
16	verrucosus Barnes.		<i>niger?</i> Raf.
	<i>U. tuberculata?</i> Raf.		<i>niger</i> Conrad.
	<i>tuberculosa</i> Valen.	19	carbonarius Lea.
	<i>verrucosus purpureus</i>	20	gibber Lea.
	Hild.	20	pumilis Lea.
	<i>tuberculatus</i> Conrad.	20	rubiginosus Lea.
16	nodulosus Lea.	20	Barnesianus Lea.
	<i>Mya nodulosa</i> Wood.	20	pileus Lea.
16	irroratus Lea.	20	Sowerbianus Lea.
	<i>U. verrucosus albus</i> Hild.	20	solidus Lea.
16	dromas Lea.	20	obliqua Lam.
17	Æsopus Green.		<i>U. undatus</i> Barnes.
	<i>U. cicatricosus</i> Conrad.		<i>trigonus</i> Say.
	<i>varicosus</i> Conrad.		

Page.

- U. mytiloides* Eat.
undulatus Desh.
cordatus? Raf.
cordatus Conrad.
21 **Unio pyramidatus** Lea.
U. rubra? Raf.
mytiloides Conrad.
21 **mytiloides** Raf.
Mya obliqua Wood.
21 **Troostensis** Lea.
U. trabalis Conrad.
21 **Taitianus** Lea.
21 **cor** Conrad.
21 **decisus** Lea.
22 **clavus** Lam.
U. scalenia Raf.
modioliformis Say.
22 **patulus** Lea.
22 **Ravenelianus** Lea.
22 **sulcatus** Lea.
U. ridibundus Say.
22 **Haysianus** Lea.
22 **ellipsis** Lea.
22 **castaneus** Lea.
22 **Tampicoensis** Lea.
23 **Lecontianus** Lea.
23 **perdix** Lea.
23 **pectorosus** Conrad.
23 **ventricosus** Barnes.
23 **occidens** Lea.
U. ventricosus Say.
23 **globosa** Lea.
Symph. globosa Lea.
U. capax? Green.
23 **ochraceus** Say.
Symph. ochracea Lea.
23 **splendidus** Lea.
23 **cariosus** Say.
U. cariosa Lam.
ovata Valen.
luteola Conrad.
24 **perovatus** Conrad.
24 **altilis** Conrad.
24 **multiradiatus** Lea.
U. fasciola? Raf.
fasciolus Conrad.

Page.

- U. ligamentina* Desh.
24 **Unio perovalis** Conrad.
24 **capsæformis** Lea.
24 **Greenii** Conrad.
24 **pictus** Lea.
24 **tæniatus** Conrad.
24 **interruptus** Lea.
24 **venustus** Lea.
24 **crassus** Say.
U. ellipticus Barnes.
curinatus Barnes.
ligamentina Lam.
Mya gravis Wood.
U. fasciatus Conrad.
25 **orbiculatus** Hild.
U. abruptus Say.
crassus Conrad.
25 **Hydianus** Lea.
25 **luteolus** Lam.
U. siliquoides Barnes.
inflatus Barnes.
25 **pulcher** Lea.
25 **radiatus** Lam.
U. Virginiana Lam.
Mya radiata Gmel.
oblongata Wood.
pictorum tenuis Chem.
26 **Medellinus** Lea.
26 **notatus** Lea.
26 **Vanuxemensis** Lea.
26 **Nashvillianus** Lea.
26 **Zeiglerianus** Lea.
26 **lienosus** Conrad.
26 **obscurus** Lea.
27 **Cumberlandianus** Lea.
27 **vibex** Conrad.
27 **Muhlfeldianus** Lea.
28 **creperus** Lea.
28 **glaber** Lea.
28 **Hildrethianus** Lea.
Alas. ambigua? Say.
28 **fabalis** Lea.
U. capillus Say.
lapillus Say.
28 **parvus** Barnes.
U. parvus Conrad.

Page.

- 28 **Unio glans** Lea.
 29 *brevidens* Lea.
 30 *tetralasmus* Say.
 30 *camptodon* Say.
 U. declivis Conrad.
 30 *obesus* Lea.
 30 *Hopetonensis* Lea.
 30 *Roanokensis* Lea.
 30 *jejunus* Lea.
 30 *complanatus* Lea.
 Mya complanata Sol.
 rigida Wood.
 U. violaceus Spangler.
 purpureus Say.
 rarisulcata Lam.
 coarctata Lam.
 purpurascens Lam.
 rhombula Lam.
 carinifera Lam.
 Georgina Lam.
 glabrata Lam.
 sulcidens Lam.
 fluvialilis Green.
 31 *Grimithianus* Lea.
 31 *confertus* Lea.
 31 *paliatus* Ravenel's letter.
 31 *Watereensis* Lea.
 U. Raveneli Conrad.
 32 *fulvus* Lea.
 U. icterinus Conrad.
 32 *Congaræus* Lea.
 32 *declivis* Say.
 U. geometricus Lea.
 32 *Blandingianus* Lea.
 33 *circulus* Lea.
 Mya rotunda? Wood.
 33 *lens* Lea.
 33 *rubellus* Conrad.
 33 *Masoni* Conrad.
 33 *rotundatus* Lam.
 U. suborbiculata Lam.
 glebulus Say.
 subglobosus Lea.
 33 *personatus* Say.
 U. capillaris Lea.

Page.

- 34 **Unio retusus** Lam.
 U. torsa Raf.
 34 *ebenus* Lea.
 U. mytiloides Conrad.
 34 *maculatus* Conrad.
 34 *Kirtlandianus* Lea.
 34 *subrotundus* Lea.
 U. politus? Say.
 brevialus? Crouch.
 34 *infucatus* Conrad.
 34 *coccineus* Lea.
 U. coccineus Hildreth's
 letter, Conrad.
 catillus Conrad.
 34 *Shepardianus* Lea.
 34 *folliculatus* Lea.
 34 *rectus* Lam.
 U. pralongus Barnes.
 rectu Valen.
 Sugeri? Conrad.
 Mya pralonga Wood.
 35 *dehiscens?* Say.
 U. oriens Lea.
 35 *angustatus* Lea.
 35 *lanceolatus* Lea.
 35 *anodontoides* Lea.
 U. teres? Raf.
 teres Conrad.
 37 *productus* Conrad.
 37 *nasutus* Say.
 U. rostratus Valen.
 Mya nasuta Wood.
 U. subrostratus? Say.
 37 *Fisherianus* Lea.
 37 *Jayensis* Lea.
 37 *lugubris* Lea.
 37 *iris* Lea.
 U. nebulosus Conrad.
 38 *tenuissimus* Lea.
 Symph. tenuissima Lea.
 An. purpurascens Swain.
 U. velum Say.
 38 *phaseolus* Hild.
 U. planulatus Lea.
 cuneatus Barnes.

Page.		Page.	
38	Unio arcus Conrad.		<i>U. ater</i> Lea.
38	arctatus Conrad.		<i>lugubris</i> Say.
38	gibbosus Barnes.		<i>Poulsoni</i> Conrad.
	<i>U. mucronatus</i> Barnes.	39	Unio cuprinus Lea.
	<i>nasuta</i> Lam.		<i>U. metallicus</i> Say.
	<i>dilatata?</i> Raf.	39	modioliformis Lea.
	<i>dilatatus</i> Conrad.		<i>U. delumbis</i> Conrad.
39	arctior Lea.	39	tenerus Rav.
39	Vaughanianus Lea.		<i>U. tenebrosus</i> Conrad.
	<i>U. Carolinensis</i> Rav. lett.	39	Tappanianus Lea.
39	purpuratus Lam.	39	stramineus Conrad.
	<i>Mya ventricosa</i> Solan.	40	monodontus Say.
			<i>U. soleniformis</i> Lea.

[The following species are known to the author by name only.—W. G. B.]

Page.		Page.	
41	Unio Grœnlandicus Schröt.	41	Unio oviformis Conrad.
41	purpuratus Say.	41	furvus Conrad.
Subgenus Margaritana.			
	(SYMPHYNOTE.)		<i>Alas. sculptilis</i> (y'ng) Say.
	(a. Plicate.)		<i>Mya undulata</i> Wood.
43	Margaritana complanata Lea.		<i>Unio hians</i> Valen.
	<i>Alas. complanata</i> Barnes.		<i>glabratus</i> Sowb.
	<i>Symph. complanata</i> Lea.	44	Margaritana Raveneliana
	(NON SYMPHYNOTE.)		Lea.
	(a. Plicate.)	44	radiata Lea.
43	confragosa Lea.		<i>Alas. radiata</i> Conrad.
	<i>Alas. confragosa</i> Say.	45	calceola Lea.
43	arcula Lea.		<i>Unio calceolus</i> Lea.
43	marginata Lea.		<i>Alas. marginata</i> Say.
	<i>Alas. marginata</i> Say.		<i>truncata</i> Conrad.
	<i>truncata</i> Say.	45	margaritifera Lea.
	<i>Unio cariosa</i> Lam. (var. 2.)		<i>Mya margaritifera</i> Linn.
	<i>varicosa</i> Lam.		<i>Margaritana fluviatilis</i>
	<i>calceolus</i> Say.		Schum.
	<i>Mya regulosa</i> Wood.		<i>Unio elongata</i> Lam.
44	rugosa Lea.		<i>sinnata</i> Pfeif.
	<i>Alas. rugosa</i> Barnes.		<i>Roissyi</i> Mich.
	<i>abducta</i> Say.		<i>margaritiferus</i> Pfeif.
	(b. Smooth.)		<i>rivalis</i> Zeig.
44	deltoidea Lea.		<i>Al. margaritiferum</i> Flem.
44	undulata Lea.		<i>arcuata</i> Barnes.
	<i>Alas. undulata</i> Say.	46	Holstonia Lea.
		46	fabula Lea.

Subgenus **Anodonta**.

Page.		Page.	
	(SYMPHYNOTE.)		<i>Myt. illitus</i> Soland.
	(a. <i>Smooth</i> .)		<i>A. cataracta</i> Say.
48	Anodonta Benedictensis Lea.		<i>implicata?</i> Say.
	<i>Symph. Benedictensis</i> Lea.		<i>teres</i> Conrad.
	(NON-SYMPHYNOTE.)	51	Anodonta glauca Valen.
	(b. <i>Smooth</i> .)		<i>A. glauca</i> Lam.
50	fragilis Lam.	52	ovata Lea.
50	undulata Say.	52	plana Lea.
	<i>Anodon rugosus</i> Swain.		<i>A. declivis</i> Conrad.
	<i>Anodonta Pennsylvanica</i>	52	decora Lea.
	Lam.	52	gigantea Lea.
50	Wardiana Lea.	52	subvexa Conrad.
	<i>A. virgata</i> Conrad.	52	Stewartiana Lea.
50	edentula Lea.	52	globosa Say.
	<i>Alas. edentula</i> Say.		<i>A. inflata</i> Maj. LeConte's
	<i>Anodon arcolatus</i> Swain.		cabinet.
51	Ferussaciana Lea.	52	grandis Say.
51	salmonia Lea.		<i>A. corpulenta</i> Coop.
51	incerta Lea.	52	suborbiculata Say.
51	fluviatilis Lea.	54	cylindracea Lea.
	<i>Myt. fluviatilis</i> Soland.	54	Buchanensis Lea.

[The following species are unknown to the author.—W. G. B.]

Page.		Page.	
54	Anodonta imbecilis Say.	54	Anodonta impura Say.
54	lugubris Say.		

[A list of uncertain species of Rafinesque is given on pp. 58 and 59. It is the same as copied from the third edition.—W. G. B.]

In the Addenda, *Anodonta marginata* Say = *A. fluviatilis*.

Unio Dorfeullianus Lea.	Anodonta Nuttalliana Lea.
graniferus Lea.	Wahlamatensis Lea.
Rangianus Lea.	Oregonensis Lea.
Menkianus Lea.	pavonia Lea.
discus Lea.	Newtonensis Lea.
contradens Lea.	

Adams.—Shells: by Prof. C. B. ADAMS. From the Exploration of the Red River of Louisiana, by Capt. Marcy. Washington, 1854.

[No descriptions are given. The particular localities are noted.]

Page.	Name.	Locality.
242	<i>Unio asperimus</i> Lea.	Otter creek, lat. 34° 35' N.,
242	—————	long. 100° W.
243	<i>tuberculatus</i> Barnes.	Otter creek.
243	<i>anodontoides</i> Lea.	Otter creek.
243	<i>parvus</i> Barnes.	Otter creek.
243	<i>Hydianus</i> Lea.	Fort Washita.
243	<i>lævissimus</i> Lea.	Otter creek?
243	<i>gracilis</i> Barnes.	Otter creek.
243	<i>Cyclas distorta</i> Prime.	Otter creek.
243	<i>Bulimus liquabilis</i> Reeve.	Otter creek.
243	<i>Physa ancillaria</i> Say.	Otter creek.
244	<i>heterostropha</i> Say.	Otter creek.
244	<i>Limnæa caperata</i> Say.	One day from Cache creek.
244	<i>Planorbis lentus</i> Say.	One day from Cache cr., &c.

Also—Notes on the geographical distribution of the above.

Schumard.—Notices of Additional Species of Shells: by G. C. SCHUMARD, M. D.

Page.	Name.	Locality.
244	<i>Unio anodontoides</i> Lea.	Little Wichita, &c.
244	<i>rugosus</i> Barnes.	Little Wichita.
245	<i>siliquoides</i> Barnes.	Near Otter creek.
245	<i>lævissimus</i> Lea.	Otter creek.
245	<i>Anodonta imbecillis</i> Say.	Beaver creek, &c.
245	<i>Planorbis trivolvis</i> Say.	
245	<i>Physa gyrina</i> Say.	Beaver cr., Choctaw nation.
245	<i>Succinea avara</i> Say.	Otter cr., Choctaw nation.
245	<i>Cyclas partumeia</i> Say.	Otter and Beaver creeks.
245	<i>Bulimus dealbatus</i> Say.	Texas.

Stimpson.—Synopsis of the Marine Invertebrata of Grand Manan, or the region about the mouth of the Bay of Fundy, New Brunswick: by WILLIAM STIMPSON. (Smithsonian Contributions to Knowledge, vol. vi. Washington, 1854.)

[Descriptions of new species are given in full, with notes on those previously known.]

Page.		Page.	
19	<i>Ascidia callosa</i> Stimp.	21	<i>Mactra ponderosa</i> Phil.
20	<i>tenella</i> Stimp.	21	<i>solidissima</i> Chemn.
20	<i>geometrica</i> Stimp.	21	<i>Tellina fusca</i> Phil.
20	<i>Glandula fibrosa</i> Stimp.	21	<i>proxima</i> Brown.
20	<i>mollis</i> Stimp.	21	<i>Solen ensis</i> Linn.
20	<i>Cynthia pyriformis</i> Rathke.	21	<i>Thracia truncata</i> Mighels.
20	<i>echinata</i> Stimp.	21	<i>myopsis</i> Beck.
20	<i>Boltenia rubra</i> Stimp.		<i>T. Couthouyi</i> Stimp.
20	<i>reniformis</i> (?) McLeay.	21	<i>Conradi</i> Couth.
20	<i>Terebratula septentrionalis</i>	21	<i>Lyonsia hyalina</i> Conrad.
	Couth.	21	<i>Pandora trilineata</i> Say.
20	<i>Anomia ehippium</i> Linn.	21	<i>Næra pellucida</i> St. (fig. 13.)
20	<i>aculeata</i> Gmelin.	22	<i>Panopea Norvegica</i> Lovén.
20	<i>Pecten Magellanicus</i> Lam.	22	<i>Mya truncata</i> L.
20	<i>Islandicus</i> Müll.	22	<i>arenaria</i> L.
20	<i>Nucula proxima</i> Say.	22	<i>Saxicava rugosa</i> Lam.
20	<i>tenuis</i> Turton.	22	<i>arctica</i> Desh.
20	<i>delphinodonta</i> Mighels.	22	<i>Pholas crispata</i> L.
20	<i>Leda thraciæformis</i> Stimp.	22	<i>Dentalium striolatum</i> Stimp.
20	<i>sapotilla</i> Stimp.	22	<i>Chiton albus</i> L.
20	<i>myalis</i> Stimp.	22	<i>ruber</i> L.
20	<i>limatula</i> Stimp.	22	<i>marmoreus</i> O. Fabr.
21	<i>tenuisulcata</i> Stimp.	22	<i>mendicarius</i> Mighels.
21	<i>Mytilus decussatus</i> Stimp.	22	<i>Pilidium cæcum</i> .
21	<i>corrugata</i> Stimp.		<i>Patella cæca</i> Müll.
21	<i>discors</i> L.		<i>candida</i> Couth.
21	<i>levigatus</i> Stimp.		<i>Pilidium candidum</i> Stimp.
21	<i>discrepans</i> Mont.	22	<i>Tectura testudinalis</i> Gray.
21	<i>modiolus</i> L.	22	<i>Calyptrea striata</i> Say.
21	<i>edulis</i> L.	22	<i>Diadora Noachina</i> Gray.
21	<i>Thyasira Gouldii</i> Stimp.	23	<i>Trochus occidentale</i> Mighels.
21	<i>Cardita borealis</i> Conrad.	23	<i>Margarita cinerea</i> Gould.
21	<i>Astarte sulcata</i> Flem.	23	<i>obscura</i> Gould.
21	<i>quadrans</i> Gould.	23	<i>undulata</i> Sowb.
21	<i>Cyprina Islandica</i> Lam.	23	<i>argentata</i> Gould.
21	<i>Cardium Islandicum</i> Linn.	23	<i>helicina</i> Möll.
21	<i>pinnulatum</i> Conrad.	23	<i>acuminata</i> Sowb.

Page.		Page.	
23	<i>Adeorbis costulata</i> Stimp.	24	<i>Tritonium decemcostatum</i> Midd.
23	<i>Littorina rudis</i> Gould.	24	<i>pygmæum</i> Stimp.
23	<i>litoralis</i> F. & H.	24	<i>clathratum</i> Müll.
23	<i>Lacuna vinota</i> Turton.	24	<i>Fasciolaria ligata</i> Mighels.
23	<i>Rissoa eburnea</i> Stimp.	24	<i>Columbella rosacea</i> Stimp.
23	<i>aculeus</i> Stimp.	24	<i>dissimilis</i> Stimp.
23	<i>Mighelsii</i> Stimp.	24	<i>Mangelia turricula</i> F. & H.
23	<i>pelagica</i> Stimp.	24	<i>pyramidalis</i> Stimp.
23	<i>Turritella costulata</i> Mighels.	25	<i>cancellata</i> Stimp.
23	<i>erosa</i> Couth.	25	<i>decussata</i> Stimp.
23	<i>acicula</i> Stimp.	25	<i>Bulla hiemalis</i> Couth.
23	<i>Aporrhais occidentalis</i> Beck.	25	<i>triticea</i> Couth.
23	<i>Scalaria Grœnlandica</i> Gould.	25	<i>pertenuis</i> Mighels.
23	<i>Menestho albula</i> Möll.	25	<i>debilis</i> Gould.
23	<i>Chemnitzia nivea</i> Stimp.	25	<i>Philine lineolata</i> Stimp.
24	<i>Natica flava</i> Gould.	25	<i>Canthopsis Havardiensis</i> Agassiz.
24	<i>heros</i> Say.	25	<i>Eolis farinacea</i> Gould, MS.
24	<i>triseriata</i> S.	25	<i>stellata</i> Stimp. (n. sp.)
24	<i>Grœnlandica</i> Beck.	25	<i>purpurea</i> Stimp. (n. sp.)
24	<i>immaculata</i> Totten.	26	<i>diversa</i> Couth.
24	<i>clausa</i> Brod. & Sowb.	26	<i>Mananensis</i> Stimp.
24	<i>Velutina haliotoides</i> Möll.	26	<i>Doto coronata</i> Lovén.
24	<i>zonata</i> Gould.	26	<i>Dendronotus arborescens</i> A. & H.
24	<i>Lamellaria perspicua</i> Lovén.	26	<i>Ancula sulphurea</i> Stimp.
24	<i>Admete viridula</i> Stimp.	26	<i>Doris planulata</i> St. (fig. 14.)
24	<i>Trichotropis borealis</i> Br. & S.	26	<i>pallida</i> Agassiz.
24	<i>Purpuralapillus</i> Lam. [Sowb.]	27	<i>Loligo Bartramii</i> (?) Les.
24	<i>Nassa trivittata</i> S.		
24	<i>Buccinum undatum</i> L.		
24	<i>Tritonium Islandicum</i> Lovén.		

Prime.—Descriptions of three new species of *Pisidium*: by TEMPLE PRIME. (From *Annals of the New York Lyceum of Natural History*, vol. vi. March, 1854.)

Page.	Plate.	Fig.	Name.	Locality.
64	i	1	<i>Pisidium cicer</i> Prime.	Washington Co., N. Y.
65	i	2	<i>contortum</i> Prime.	Pittsfield, Mass.
65	i	3	<i>Noveboracense</i> Prime.	Washington and Herkimer Counties, N. Y.

Prime.—On the identity of *Cyclas elegans* Adams with *Cyclas rhomboidea* Say: by TEMPLE PRIME. (From same, p. 66.)

Anthony.—Descriptions of new Fluvialile Shells of the Genus
Melania of Lamarek from the Western States of North America:
 by J. G. ANTHONY, Esq. (From same.)

Page.	Plate.	Fig.	Name.	Locality.
83	ii	1	<i>Melania athleta</i> Anthony.	Tennessee.
84	ii	2	<i>viridula</i> Anthony.	Tennessee.
85	ii	3	<i>hastata</i> Anthony.	Alabama.
86	ii	4	<i>iota</i> Anthony.	Ohio?
87	ii	5	<i>altipeta</i> Anthony.	Raccoon creek, Ohio.
88	ii	6	<i>latitans</i> Anthony.	Mammoth cave, Ky.
89	ii	7	<i>vittata</i> Anthony.	Alabama.
90	ii	8	<i>nigrocincta</i> Anthony.	Tennessee.
91	ii	9	<i>subangulata</i> Anthony.	Alabama.
92	ii	10	<i>brunnea</i> Anthony.	Alabama.
93	ii	11	<i>virens</i> Anthony.	Alabama.
93	ii	12	<i>ampla</i> Anthony.	Alabama.
94	ii	13	<i>ambusta</i> Anthony.	Alabama.
95	ii	14	<i>arachnoidea</i> Anthony.	London, Tenn.
97	ii	15	<i>eliminata</i> Anthony.	Owenboro', Ky.
98	ii	16	<i>baculum</i> Anthony.	Tennessee.
99	ii	17	<i>incrassata</i> Anthony.	— ?
99	ii	18	<i>excavata</i> Anthony.	Alabama.
100	ii	19	<i>casta</i> Anthony.	Alabama.
101	ii	20	<i>textilosa</i> Anthony.	Georgia.
102	iii	1	<i>curvilabris</i> Anthony.	Tennessee.
103	iii	2	<i>elegantula</i> Anthony.	Kentucky.
104	iii	3	<i>pupoidea</i> Anthony.	Alabama.
105	iii	4	<i>tecta</i> Anthony.	Ohio.
105	iii	5	<i>imbricata</i> Anthony.	Alabama.
106	iii	6	<i>pagodiformis</i> Anthony.	Battle creek, Tenn.
107	iii	7	<i>eximia</i> Anthony.	Tennessee.
108	iii	8	<i>cristata</i> Anthony.	Alabama.
109	iii	9	<i>proscissa</i> Anthony.	Alabama.
110	iii	10	<i>torulosa</i> Anthony.	Tennessee.
111	iii	11	<i>planogyra</i> Anthony.	Alabama.
112	iii	12	<i>gradata</i> Anthony.	Alabama.
113	iii	13	<i>fastigiata</i> Anthony.	Tennessee.
114	iii	14	<i>vicina</i> Anthony.	Alabama.
115	iii	15	<i>pallidula</i> Anthony.	Tennessee.
116	iii	16	<i>rhombica</i> Anthony.	Alabama.

April, 1854.

117	iii	17	<i>angulata</i> Anthony.	Tennessee.
118	iii	18	<i>tabulata</i> Anthony.	Tennessee.

Page.	Plate.	Fig.	Name.	Locality.
119	iii	19	<i>Melania clara</i> Anthony.	Alabama.
120	iii	20	<i>fusco-cincta</i> Anthony.	Alabama.
121	iii	21	<i>plena</i> Anthony.	Alabama.
122	iii	22	<i>compacta</i> Anthony.	Alabama.
123	iii	23	<i>glans</i> Anthony.	Tennessee.
123	iii	24	<i>planospira</i> Anthony.	Tennessee.
124	iii	25	<i>undosa</i> Anthony.	Nolen river, Ky.
125	iii	26	<i>consanguinea</i> Anthony.	Indiana.
126	iii	27	<i>coronilla</i> Anthony.	Tennessee.
127	iii	28	<i>corpulenta</i> Anthony.	Alabama.
128	iii	29	<i>neglecta</i> Anthony.	Dayton, Ohio.
129	i	5	<i>gracillor</i> Anthony.	Stark, Co., Ohio.
<i>M. gracilis</i> Anthony, preoc.				

Redfield.—Descriptions of new species of Shells: by JOHN H. REDFIELD. (From same, April, 1854.)

Pa.	Pl.	Fig.	Name.	Locality.
130	i	6	<i>Anculosa Anthonyi</i> Budd MS.	Holston riv., Knoxville, Ten.

Anthony.—Descriptions of new species of *Ancylus* and *Anculosa* from the Western States of North America: by JOHN G. ANTHONY. (From same, October, 1855.)

Page.	Plate.	Fig.	Name.	Locality.
158	v	20-21	<i>Ancylus elatior</i> Anthony.	Green river, Ky.
158	v	22-23	<i>Anculosa ampla</i> Anthony.	Alabama.

Redfield.—Descriptions of two new species of North American Helicidae: by JOHN H. REDFIELD. (From same, Dec., 1856.)

Page.	Plate.	Fig.	Name.	Locality.
170	ix	8-10	<i>Helix Elliotti</i> Redfield.	Georgia and N. C.
171	ix	4-7	<i>barbigera</i> Redfield.	Habersham Co., Ga.

Wailes.—Catalogue of Mollusca: by B. L. C. WAILES. (From Geological Report of Mississippi, 1854.)

Page		Page.	
338	<i>Unio anodontoides.</i>	338	<i>Unio circulus.</i>
338	<i>asperimus.</i>	338	<i>globosus.</i>
338	<i>cylindricus.</i>	338	<i>glans.</i>

Page		Page	
338	Unio hydranus.	338	Unio rectus.
338	heros.	338	siliquoides.
338	inflata.	338	subovatus.
338	lens.	338	trapezoides.
338	Mississippiensis.	338	trigonus.
338	multiplicatus.	338	tuberculatus.
338	nodiferus.	338	Anodonta grandis.
338	nobilis.	338	plana.
338	nasutus.	338	suborbiculatus.
338	nodulatus.	338	decora.
338	obesus.	338	Stewartiana.
338	plicatus.	339	Helix alternata.
338	perplicatus.	339	auriculata.
338	porrectus.	339	fraterna.
338	purpuratus.	339	hirsuta.
338	pustulosus.	339	interna.
338	pustulatus.	339	pulchella.
338	quadrulus.	339	tridentata.

Bland.—Descriptions of two new species of North American Helicidæ: by THOMAS BLAND. (From Annals N. Y. Lyceum, February, 1858.) And, Remarks on certain species of North American Helicidæ.

[These papers are also printed in pamphlet form, with the title of "Remarks on certain species of North American Helicidæ, with descriptions of new species." New York: H. Baillière. The original work and pamphlet are both quoted. The numbering of the plate is the same in each.]

February, 1858.

ANNALS.				REMARKS.		Name.
Vol.	Page.	Pl.	Fig.	Pt.	Page.	
vi	277	ix	14-16	1	1	Helix Edwardsi Bland. Fayette or Green Briar Co., Va.
vi	279	ix	11-13	1	3	sculptilis Bland. Anantehely Mountains, N. C.
vi	283	ix	17-20	1	7	fatigiata Say. <i>H. Dorfeuilliana</i> Desh. <i>Texasiana</i> Desh.
vi	288	ix	21-23	1	12	Troostiana Lea. <i>H. fatigiata</i> Binney. <i>plicata</i> Binney. <i>Polygyra Troostiana</i> Lea.

ANNALS.				REMARKS.		Name.
Vol.	Page.	Pl.	Fig.	Pt.	Page.	
vi	291	ix	27-30	1	15	Helix Hazardi Bland. <i>Polygyra plicata</i> Say. <i>Troostiana</i> W. G. Binney. <i>H. Texasiana</i> Pfr. <i>Dorfeuilliana</i> Desh. <i>fatigiata</i> Binney.
vi	294	ix	24-26	1	18	Dorfeuilliana Lea. <i>Polygyra Dorfeuilliana</i> Lea. <i>H. fatigiata</i> Binney.
vi	299			1	23	Pennsylvanica Green. <i>H. Mitchelliana</i> Desh.

September, 1858.

ANNALS.		REMARKS.		Name.	Locality.
Vol.	Page.	Pt.	Page.		
vi	336	1	27	Helix clausa Say. <i>H. Pennsylvanica</i> Pfr. <i>Mitchelliana</i> Chemn.	
vi	339	1	29	Mitchelliana Lea. <i>H. clausa</i> De Kay.	
vi	341	1	31	jejuna Say. <i>H. Mobiliana</i> Lea.	
vi	344	1	34	porcina Say (with a fig.) <i>H. hirsuta</i> Binney. <i>inflecta</i> ?	
vi	346	1	36	pustula Fer. (with a fig.) <i>H. leporina</i> W. G. Binney.	
vi	348	1	39	leporina Gould. <i>H. pustula</i> Pfr. (var.)	
vi	350	1	40	pustuloides Bland. <i>H. pustula</i> Binney, non Fer.	
vi	352	1	42	glaphyra Say (with a fig.)	
vi	358	1	49	albolabris Say. <i>H. major</i> Binney.	

December, 1858.

vii	26	2	55	Helix auriculata Say (fig.)	St. Augustine, Florida.
vii	30	2	59	avara Say (with a fig.)	St. John's river, Fla.
vii	34	2	63	uvulifera Shutt. (fig.)	Corpus Christi.
				<i>H. florulifera</i> Reeve.	
vii	35	2	64	Postelliana Bland (fig.)	Ga., various localities.
vii	37	2	66	auriformis Bland (fig.)	Ga., Texas, Alabama.
				<i>H. auriculata</i> Binney.	
				<i>avara</i> Reeve.	

Trask.—Proceedings of the California Academy of Natural Sciences, vol. i. San Francisco. Dr. J. B. TRASK. (Feb. 1855.)
Descriptions of—

Page.	Name.	Locality.
28	Anodonta Randallii Trask.	Upper San Joaquin.
29	<i>triangularis</i> Trask.	Sacramento river.
29	<i>rotundovata</i> Trask.	Sacramento valley.
30	Alasmodonta Yubaensis Trask.	Yuba river.

Holmes.—Description of a new species of *Ostrea* found living in the waters of the Coast of South Carolina: by FRANCIS S. HOLMES. (Proc. of Elliott Soc. of Nat. Hist. of Charleston, S. C., vol. i. p. 29. June, 1856.)

Page.	Name.	Locality.
29	Ostrea triangularis Holmes.	Edisto river.

Chickering.—List of Marine, Fresh-water, and Land Shells found in the vicinity of Portland, Maine: by J. W. CHICKERING, Jr.

[No date, but published in 1855 or 1856.—W. G. B.]

No.	MARINE SHELLS.	No.	
3	Anomia aculeata Gmelin.	26	Chiton albus Mont.
4	<i>ephippium</i> Linn.	27	<i>Emersonii</i> Couth.
5	Astarte castanea Say.	28	<i>fulminatus</i> Couth.
6	<i>quadrans</i> Gould.	29	<i>ruber</i> Lowe.
7	<i>undata</i> Gould.	30	Cingula aculeus Gould.
13	Buccinum obsoletum Say.	31	<i>arenaria</i> Mont.
14	<i>plicosum</i> Menke.	32	<i>latior</i> Mighels.
15	<i>rosaceum</i> Gould.	33	<i>minuta</i> Totten.
16	<i>trivittatum</i> Say.	34	<i>semicostata</i> Mont.
17	<i>undatum</i> Linn.	35	Cochlodesma Leana Conrad.
18	Bulla debilis Gould.	36	Crepidula fornicata Linn.
19	<i>pertenuis</i> Mighels.	37	<i>plana</i> Say.
20	<i>triticea</i> Couth.	38	Cyprina Islandica Linn.
21	Calyptrea striata Say.	39	Dentalium entale Linn.
22	Cardita borealis Conrad.	40	Fusus bamffius Flem.
23	Cardium Islandicum Linn.	41	<i>decemcostatus</i> Say.
24	<i>pinnulatum</i> Conrad.	42	<i>pygmaeus</i> Gould.
25	Cemoria Noachina Linn.	43	<i>rufus</i> Mont.
		44	<i>turriculus</i> Mont.

- No.
 45 *Lacuna neritoidea* Gould.
 46 *fusca* Gould.
 47 *vincta* Mont.
 48 *Littorina palliata* Say.
 49 *rudis* Don.
 50 *tenebrosa* Mont.
 51 *Lucina flexuosa* Mont.
 52 *Machera costata* Say.
 53 *Mactra gigantea* Lam.
 54 *Margarita arctica* Leach.
 55 *argentata* Gould.
 56 *cinerea* Couth.
 57 *obscura* Couth.
 58 *undulata* Sowerby.
 59 *Mesodesma arcata* Conrad.
 60 *Modiola discrepans* Mont.
 61 *glandula* Totten.
 62 *modiolus* Linn.
 63 *nexa* Gould.
 64 *plicatula* Lam.
 65 *Mya arenaria* Linn.
 66 *Mytilus edulis* Linn.
 67 *Natica clausa* Sowerby.
 68 *heros* Say.
 69 *immaculata* Totten.
 70 *pusilla* Say.
 71 *triseriata* Say.
 72 *Cascoensis* Mighels.
 73 *delphinodonta* Mighels.
 74 *limatula* Say.
 75 *minuta* Gmelin.
 76 *myalis* Couth.
 77 *Nucula navicularis* Couth.
 78 *Portlandica* Hitchcock.
 79 *proxima* Say.
 80 *sapotilla* Gould.
 81 *tenuis* Mont.
 82 *thraciæformis* Storer.
 83 *Patella alveus* Conrad.
 84 *amœna* Say.
 85 *candida* Couth.
 86 *Pecten Islandicus* Müll.
 87 *Magellanicus* Gmelin.
 89 *Pleurotoma decussata* Couth.
 90 *violacea* Adams.

- No.
 91 *Purpura lapillus* Linn.
 92 *Sanguinolaria fusca* Say.
 93 *Saxicava distorta* Linn.
 94 *Scalaria Greenlandica*
Chemn.
 95 *Sigaretus haliotoides* Linn.
 96 *Skenia serpuloides* Mont.
 97 *Solemya borealis* Totten.
 98 *velum* Say.
 99 *Solen ensis* Linn.
 100 *siliqua*.
 102 *Terebratula caput-serp-*
pentis Linn.
 103 *Thracia truncata* Mighels.
 104 *Trichotropis borealis* Sowb.
 105 *Turritella erosa* Couth.
 106 *Velutina lævigata* Linn.
 107 *zonata* Gould.
 108 *Venus gemma* Totten.
 109 *mercenaria* Linn.

FRESH-WATER SHELLS.

- 110 *Alasmodon arcuata* Barnes.
 111 *marginata* Say.
 112 *undulata* Say.
 113 *Ammicola lustrica* Say.
 114 *porata* Say.
 115 *Ancylus rivularis* Say.
 116 *tardus* Say.
 117 *Anodon cataracta* Say.
 118 *implicata* Say.
 119 *marginata* Say.
 120 *Cyclas calyculata* Drap.
 121 *minor* Mighels.
 122 *partumeia* Say.
 123 *similis* Say.
 124 *Limnæa columella* Say.
 125 *decollata* Mighels.
 126 *desidiosa* Say.
 127 *humilis* Say.
 128 *Paludina decisa* Say.
 129 *Physa ancillaria* Say.
 130 *heterostrophæ* Say.
 131 *hypnorum* Drap.

No.	
132	Planorbis armigerus Say.
133	bicarinatus Say.
134	campanulatus Say.
135	deflectus Say.
136	exacutus Say.
137	lentus Say.
138	parvus Say.
139	trivolvus Say.
140	Unio complanatus Sol.
141	ochraceus Say.
142	radiatus Say.

LAND SHELLS.

143	Bulimus lubricus Müll.
144	Helix albolabris Say.
145	alternata Say.

No.	
146	Helix arborea Say.
147	cellaria .
148	electrina Gould.
149	fraterna Say.
150	harpa Say.
151	hortensis Müll.
152	labyrinthica Say.
153	lineata Say.
154	pulchella Müll.
155	striatella Anth.
156	Pupa contracta Say.
157	curvidens Gould.
158	Gouldii .
159	modesta Say.
160	Succinea campestris Say.
161	ovalis Say.
162	Vittrina pellucida Drap.

Shaffer.—A complete List of Land and Fresh-water Shells found in the immediate vicinity of Cincinnati, Ohio: by DAVID H. SHAFFER. [No date.]

No.	
1	Unio abruptus Say. <i>U. orbiculatus</i> Hildreth.
2	Æsopus Green.
3	alatus Say. <i>U. megaptera</i> Raf.
4	anodontoides (rare) Lea. <i>U. teres</i> Raf.
5	catillus (rare) Conrad. <i>U. coccineus</i> Hildreth. <i>Gouldianus</i> (wh'enaere)
6	cicatricosus Say. [Ward. <i>U. varicosus</i> Lea.
7	circulus Lea. <i>U. lens</i> Lea. <i>subrotunda</i> Raf.
8	clavus Lam. <i>U. scalenia</i> Raf. <i>patulus</i> Lea.
9	compressus Lea. <i>Symphonata compressa</i> Lea.
10	Cooperianus Lea.

No.	
11	Unio cornutus Barnes.
12	crassus Say. <i>U. ellipsaria</i> Raf. <i>ellipticus</i> Barnes. <i>carinatus</i> Barnes. <i>ligamentina</i> Lam.
13	cylindricus Say. <i>U. naviformis</i> Lam. <i>solenoides</i> Raf.
14	cuneatus Barnes. <i>U. nigra</i> Raf.
15	dehiscens Say. <i>U. oriens</i> Lea.
16	donaciformis Lea. <i>U. zig-zag</i> Lea.
17	ebenus Lea.
18	elegans Lea.
19	ellipsis Lea.
20	flavus Raf. <i>U. rubiginosus</i> Lea. <i>trigonis</i> Lea.

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|-----|--|-----|---|
| No. | | No. | |
| 21 | Unio flexuosus (male) Raf.
<i>U. foliatus</i> (female) Hild. | 42 | Unio politus Say.
<i>U. subrotundus</i> Lea. |
| 22 | fragosus Conrad. | 43 | pustulosus Lea.
<i>U. verrucosus albus</i> Hildreth. |
| 23 | gibbosus Barnes.
<i>U. nasutus</i> Lam.
<i>dilatata</i> Raf.
<i>arctior</i> (Whitnacre) Lea. | 44 | pyramidatus Lea.
<i>U. obliqua</i> Lam. |
| 24 | Hildrethianus Lea. | 45 | rangianus Lea. |
| 25 | glans Lea. | 46 | rectus Lam.
<i>U. praelongus</i> Barnes.
<i>latissima</i> Raf. |
| 26 | gracilis Barnes.
<i>Symphonata gracilis</i> Lea. | 47 | retusus Lam.
<i>U. torsa</i> Raf. |
| 27 | iris Lea.
<i>U. subrostratus</i> Say. | 48 | rugosus Barnes.
<i>U. quadrula</i> Raf.
<i>lachrymosus</i> Lea.
<i>asperimus</i> Lea. |
| 28 | irroratus Lea.
<i>U. stegaria</i> Raf. | 49 | Sayii (rare) Ward. |
| 29 | laevissimus Lea.
<i>Symph. laevissima</i> Lea. | 50 | securis Lea.
<i>U. depressa</i> Raf. |
| 30 | lapillus Say.
<i>U. fabalis</i> Lea. | 51 | siliquoideus Barnes.
<i>U. luteolus</i> Lam.
<i>inflatus</i> (fem.) Barnes. |
| 31 | monodontus Say.
<i>U. soleniformis</i> Lea. | 52 | solidus Lea.
<i>U. mytoides</i> Raf. |
| 32 | multiradiatus Lea.
<i>U. fasciola</i> Raf. | 53 | sulcatus (male) Lea. [Say.
<i>U. ridibundus</i> (female, rare) |
| 33 | nodosus Barnes.
<i>U. metenevra</i> Raf. | 54 | triangularis Barnes.
<i>U. formosus</i> (male) Lea.
<i>triqueter</i> Raf. |
| 34 | nodulatus Raf.
<i>U. pustulatus</i> Lea. | 55 | trigonis Lea.
<i>U. rubiginosis</i> (rare) Lea. |
| 35 | ovatus Say. | 56 | tuberculatus Barnes.
<i>U. tuberculosus</i> Valen.
<i>verrucosa</i> Raf. |
| 36 | parvus Barnes. | 57 | undatus Barnes.
<i>U. cardiacea</i> Say.
<i>pyramidatus</i> Lea. |
| 37 | perplexus Lea.
<i>U. gibbosa</i> Raf. | 58 | undulatus Barnes.
<i>U. heros</i> Say.
<i>multiplicatus</i> Lea. |
| 38 | personatus (fem., rare) Say.
<i>U. capillaris</i> (female) Lea.
<i>pileus</i> (male) Lea. | 59 | ventricosus Barnes.
<i>U. cardium</i> Raf.
<i>occidens</i> (female) Lea.
<i>subovatus</i> (male) Lea. |
| 39 | phaseolus Hildreth.
<i>U. planulatus</i> Lea.
<i>camelus</i> Lea. | | |
| 40 | planus Barnes.
<i>U. tenuissimus</i> Lea.
<i>velum</i> (female) Say.
<i>leptodon</i> Raf. | | |
| 41 | plicatus Say.
<i>U. costata</i> Raf.
<i>rariplicata</i> Lam.
<i>undulatus</i> Deshayes. | | |

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|---|--|
| <p>No.</p> <p>60 Unio verrucosus Barnes.
<i>U. tuberculata</i> Raf.
<i>graniferus</i> Lea.</p> <p>61 Alasmodonta calceola Lea.
<i>A. deltoidea</i> Lea.</p> <p>62 complanata Barnes.</p> <p>63 rugosa Barnes.
<i>A. costata</i> Raf.</p> <p>64 truncata Say.</p> <p>65 Anodonta edentula Say.
<i>A. arcolata</i> Swainson.</p> <p>66 Ferussaciana Lea.</p> <p>67 imbecilis Say.
<i>A. incerta</i> Lea.</p> <p>68 pavonia Lea.
<i>A. Wardiana</i> (rare) Lea.</p> <p>69 plana Lea.
<i>A. decora</i> (young) Lea.
<i>grandis</i> Say.</p> <p>Ancylus rivularis Say.</p> <p>1 Helix albolabris Say.</p> <p>2 alternata Say.</p> <p>3 appressa (rare) Say.</p> <p>4 arborea Say.</p> <p>5 chersina (rare) Say.</p> <p>6 clausa Say.</p> <p>7 concava Say.</p> <p>8 diodonta (rare) Say.</p> <p>9 elevata Say.</p> <p>10 electrina Gould.</p> <p>11 fallax Say.</p> <p>12 fraterna Say.</p> <p>13 fuliginosis (rare) Griffith.</p> <p>14 glaphyra (rare) Say.</p> <p>15 hirsuta Say.</p> <p>16 indentata Say.</p> <p>17 inflecta Say.</p> <p>18 inornata Say.</p> <p>19 intertexta (rare).</p> <p>20 interna Say.</p> <p>21 labyrinthica Say.</p> <p>22 monodon Binney.
<i>H. Leaii</i>.</p> <p>23 ligera Say.</p> <p>24 limatula (rare).</p> | <p>No.</p> <p>25 Helix lineata (rare) Say.</p> <p>26 minuta Say.
<i>H. pulchella</i> Binney.</p> <p>27 miniuscula Lea.</p> <p>28 minutissima Lea.</p> <p>29 multilineata Say.</p> <p>30 Michelliana Lea.</p> <p>31 Pennsylvanica Green.</p> <p>32 perspectiva Say.</p> <p>33 palliata Say.</p> <p>34 profunda Say.</p> <p>35 runderata Binney.
<i>H. striatella</i> Athony.</p> <p>36 solitaria Say.</p> <p>37 suppressa (rare) Say.</p> <p>38 thyroidea Say.</p> <p>39 tridentata Say.</p> <p>40 zaleta Say.</p> <p>1 Pupa armifera Say.</p> <p>2 exigua Say.</p> <p>3 ovata Say.</p> <p>4 pentodon Say.</p> <p>5 (unknown).</p> <p>1 Succinea aurea Lea.</p> <p>2 obliqua Say.</p> <p>3 vermetus Say.</p> <p>1 Planorbis armigerus Say.</p> <p>2 bicarinatus Say.</p> <p>3 lens Lea.</p> <p>4 lentus Say.</p> <p>5 parvus Say.</p> <p>6 trivolvus Say.</p> <p>1 Cyclostoma lapidaria Say.</p> <p>2 Cincinnatiensis Carley.</p> <p>1 Physa elliptica Lea.</p> <p>2 heterostrophia Say.</p> <p>3 aurea Lea.</p> <p>1 Lymnea desidiosa Say.</p> <p>2 elodes Say.</p> <p>3 exilis Lea.</p> <p>1 Melania canaliculata Say.</p> <p>2 conica Say.</p> <p>3 depygis Say.</p> <p>4 undulata Say.</p> <p>5 Sayii Wood.</p> |
|---|--|

No.		No.	
6	<i>Melania Virginica</i> Say.	2	<i>Paludina decisa</i> Say.
7	<i>virgata</i> Lea.	3	<i>integra</i> Say.
1	<i>Anculosa costatus</i> Anthony.	4	<i>subcarinata</i> Say.
2	<i>integra</i> Say.	1	<i>Cyclas similis</i> .
3	<i>prærorsa</i> Say. [Clark.	2	<i>rhomboidea</i> .
1	<i>Paludina Cincinnatiensis</i>	3	<i>partumea</i> .

W. G. Binney.—Reports of Explorations and Surveys to ascertain the most practicable and economical Route for a Railroad from the Mississippi River to the Pacific Ocean, made under the direction of the Secretary of War in 1854–5, vol. vi, pp. 111–114. Washington, 1857. Report on the Land Shells collected on the Survey: by W. G. BINNEY.

Page.		Page.	
111	<i>Helix fidelis</i> Gray.	113	<i>Helix æruginosa</i> Gould.
	<i>H. Nuttalliana</i> Lea.	114	<i>Dupetithouarsi</i> Deshayes.
112	<i>infumata</i> Gould.		<i>H. Oregonensis</i> Lea.

Prime.—Notes on some American Species of *Cyclas* described by Lamarek, Say, Rafinesque, and Linsley: by TEMPLE PRIME, LL. B., Member of the Boston Society of Nat. Hist. Part. I, pp. 4. Lamarek and Say. The Hague, 1857.

Page.		Page.	
4	<i>Cyclas sulcata</i> Lam.	4	<i>Cyclas striatina</i> Lam.
	<i>C. Saratogea</i> Lam.		<i>C. edentula</i> Say.
	<i>similis</i> Say.		<i>modesta</i> Prime.
4	<i>Cyclas cornea</i> Lam., No. 2 = <i>C. partumia</i> .		
4	<i>Cyclas cornea</i> Lam., No. 3 = <i>C. rhomboida</i> .		

Haldeman.—The Iconographic Encyclopædia of Science, Literature, and Art, systematically arranged: by J. G. HECK. Translated from the German, with additions, and edited by SPENCER F. BAIRD, A. M., M. D., &c. Vol. ii. N. Y., 1857.

[The division "Mollusca" (p. 49) contains many important notes on American Mollusca by Prof. S. S. HALDEMAN. The pages devoted to the water-breathing fluviatile univalves are of particular interest, p. 83 et seq.]

Page.	
69	<i>Unionidæ</i> . (Copious notes.)
83	<i>Anculosa</i> Say = <i>Leptoxis Raf.</i>

Page.	
84	<i>Melania armigera</i> Say
84	<i>Duttoniana</i> Lea
84	<i>catenoides</i> Lea
	} = <i>Pleurocera</i> Raf.
84	<i>Pleurocera</i> (<i>Io</i>). (Description of animal).
84	<i>Io spinosa</i> Lea = <i>Pleurocera fluvialis</i> Say.
84	<i>Io tenebrosa</i> Lea = <i>Pleurocera fluvialis</i> Say.
89	<i>Ampullaria</i> . (Animal described.)
90	<i>Physidæ</i> . (Notes.)

Ravenel.—Descriptions of three new species of Univalves, recent and fossil: by E. RAVENEL, M. D. (Proceedings of Elliott Society of Natural History of Charleston, S. C., vol i, p. 281. March, 1858.)

Page.	Name.	Locality.
281	<i>Columbella spirantha</i> Rav.	Wande river, S. C.

Higgins.—A Catalogue of the Shell-bearing species of Mollusca inhabiting the vicinity of Columbus, Ohio—with some Remarks thereon: by FRANK HIGGINS. Sept. 1858. [Without descriptions.]

Page.	No.	Name.	Locality.
4	1	<i>Unio alasmodontinus</i> Barnes.	Scioto river & tributaries.
4	2	<i>alatus</i> Say.	Scioto river.
4	3	<i>Bourneianus</i> Lea.	Scioto river.
4	4	<i>cuneatus</i> Barnes.	Scioto river.
4	5	<i>coccinneus</i> Hild.	Scioto river.
4	6	<i>cicatricosus</i> Say.	Scioto river.
4	7	<i>cylindricus</i> Say.	Scioto river.
4	8	<i>crassus</i> Say.	Scioto river.
4	9	<i>circulus</i> Lea.	Scioto river.
		<i>U. lens</i> Lea (young).	
4	10	<i>clavus</i> Lam.	Scioto river.
		<i>U. patulus</i> Lea (young).	
4	11	<i>cornutus</i> Barnes.	Scioto river.
4	12	<i>donaciformis</i> Lea.	Scioto river.
4	13	<i>elegans</i> Lea.	Scioto river.
4	14	<i>ellipsis</i> Lea.	Scioto river.
4	15	<i>Gouldianus</i> Ward.	Scioto river.
4	16	<i>gibbosus</i> Barnes.	Scioto river.
		var. <i>U. arctior</i> Lea.	
4	17	<i>gracilis</i> Barnes.	Scioto river.

Page.	No.	Name.	Locality.
5	18	Unio irroratus <i>Lea.</i>	Scioto river.
5	19	lappilus <i>Say.</i>	Scioto river.
5	20	multiradiatus <i>Lea.</i>	Scioto river.
5	21	phaselosus <i>Hild.</i>	Scioto river.
		var. <i>U. camelus</i> <i>Lea.</i>	
		<i>planantulus</i> <i>Lea.</i>	
5	22	pustulosus <i>Lea.</i>	Scioto river.
5	23	parvus <i>Barnes.</i>	Scioto river & Ohio canal.
5	24	perplexus <i>Lea.</i>	Scioto river.
5	25	plicatus <i>Say.</i>	Scioto river & Ohio canal.
5	26	Rangianus <i>Lea.</i>	Scioto river.
5	27	rubiginosus <i>Lea.</i>	Scioto river & Ohio canal.
5	28	rectus <i>Lam.</i>	Scioto river.
5	29	siliquoides <i>Barnes.</i>	Scioto river & Ohio canal.
5	30	subrostratus <i>Say.</i>	Scioto river.
5	31	solidus <i>Lea.</i>	Scioto river.
5	32	Sayii <i>Ward.</i>	Scioto river & Ohio canal.
5	33	tuberculatus <i>Barnes.</i>	Scioto river.
5	34	tenuissimus <i>Lea.</i>	Scioto river.
5	35	triangularis <i>Barnes.</i>	Scioto river.
5	36	verrucosus <i>Barnes.</i>	Scioto river.
5	37	ventricosus <i>Barnes.</i>	Scioto river.
		var. <i>U. occidentis</i> <i>Lea.</i>	
		<i>suboratus</i> <i>Lea.</i>	
5	38	Alasmodon ambigua <i>Say.</i>	Scioto river.
5	39	calceola <i>Lea.</i>	Scioto river & Ohio canal.
5	40	truncata <i>Say.</i>	Scioto river.
5	41	rugosa <i>Barnes.</i>	Scioto river & Ohio canal.
5	42	Anodon aerolata <i>Swain.</i>	Scioto river & Ohio canal.
5	43	Buchanensis <i>Lea.</i>	Scioto river & Ohio canal.
5	44	Ferussaciana <i>Lea.</i>	Scioto river & Ohio canal.
5	45	imbecilis <i>Say.</i>	Scioto river & Ohio canal.
5	46	pavonia <i>Lea.</i>	Scioto river.
5	47	plana <i>Lea.</i>	Scioto river & Ohio canal.
		<i>A. decora</i> <i>Lea</i> (young).	
5	48	salmonea <i>Lea.</i>	Scioto river.
5	49	Cyclas edentula <i>Say.</i>	Ohio canal.
5	50	occidentalis <i>Prime.</i>	Swamps.
5	51	partumeia <i>Say.</i>	Swamps.
5	52	solidula <i>Prime.</i>	Scioto river & Ohio canal.
5	53	similis <i>Say.</i>	Scioto river & Ohio canal.
5	54	rhomboidea <i>Say.</i>	Ohio canal.
5	55	transversa <i>Say.</i>	Scioto river & Ohio canal.
6	56	Pisidium dubium <i>Say.</i>	Scioto river & Ohio canal.
6	57	compressum <i>Prime.</i>	Ohio canal.

Page.	No.	Name.	Locality.
6	58	<i>Pisidium abditum</i> Hald.	Ohio canal.
6	59	<i>ferruginium</i> Prime.	Ohio canal.
6	60	<i>Limnæ caperata</i> Say.	Swamp ditches.
6	61	<i>desoidosa</i> Say.	Swamp ditches.
6	62	<i>humilis</i> Say.	Scioto riv., Ohio can., &c.
6	63	<i>reflexis</i> Say.	Swamps.
6	64	<i>umbrosus</i> Say.	Swamps.
6	65	—— ?	Swamps.
6	66	<i>Physa ancilliara</i> Lea.	Scioto river.
6	67	<i>elongata</i> Say.	Swamp ditches.
6	68	<i>gyrina</i> Say.	Scioto river.
6	69	<i>heterostropha</i> Say.	Scioto riv., Ohio can., &c.
6	70	<i>Planorbis armigerus</i> Say.	Swamp ditches.
6	71	<i>campanulatus</i> Say.	Scioto river.
6	72	<i>bicarinatus</i> Say.	Scioto river & Ohio canal.
6	73	<i>dilitatus</i> Gould.	Swamps.
6	74	<i>parvus</i> Say.	Ohio ca'l, swamp ditches.
6	75	<i>lentus</i> Say.	Scioto river.
6	76	<i>trivolis</i> Say.	Scioto swamps, Ohio ca'l.
6	77	<i>Ancylus tardus</i> Say.	Scioto river & Ohio canal.
6	78	—— ?	Scioto river.
6	79	<i>Paludina decisa</i> Say.	Scioto river & Ohio canal.
6	80	<i>genicula</i> Conrad.	Scioto river & Ohio canal.
6	81	<i>integra</i> Say.	Scioto river & Ohio canal.
		<i>P. heterostropha</i> Kirtland.	
6	82	<i>rufa</i> Hald.	Scioto river & Ohio canal.
6	83	<i>Amnicola limosa</i> Say.	Ohio canal.
6	84	<i>lapidaria</i> Say.	Moist places.
6	85	<i>Sayana</i> Anthony.	Moist places.
7	86	<i>Valvata tricarinata</i> Say.	Ohio canal.
7	87	<i>Melania depygis</i> Say.	Scioto river.
7	88	<i>inornata</i> Anthony.	Scioto river & Ohio canal.
7	89	<i>gracilor</i> Anthony.	Scioto river.
7	90	<i>exilis</i> Hald.	Scioto river.
7	91	<i>Kirtlandiana</i> Lea.	Scioto river.
7	92	<i>regularis</i> Lea.	Scioto river.
7	93	<i>pulchella</i> Anthony.	Scioto river.
7	94	<i>Sayii</i> Ward.	Scioto river.
7	95	<i>Anculosa isogonia</i> Say.	Ohio canal.
7	96	<i>Zua lubricus</i> Say.	Rocky places.
7	97	<i>Succinea avara</i> Say.	Moist places.
7	98	<i>ovalis</i> Say.	
7	99	<i>obliqua</i> Say.	
7	100	<i>vermetus</i> Say.	
7	101	<i>Pupa armifera</i> Say.	

Page.	No.	Name.	Locality.
7	102	<i>Pupa contracta</i> Say.	Moist places.
7	103	<i>exigua</i> Say.	Moist places.
7	104	<i>fallax</i> Say.	Rocky places.
7	105	<i>vata</i> Say.	Moist places.
7	106	<i>pentodon</i> Say.	Moist places.
7	107	<i>rupicola</i> Gould.	Moist places.
7	108	<i>Helix albolabris</i> Say.	Dry ridges, rocky places.
7	109	<i>alternata</i> Say.	Dry ridges, &c.
7	110	<i>arborea</i> Say.	Dry woodlands.
7	111	<i>chersina</i> Say.	Moist places.
7	112	<i>clausa</i> Say. var. <i>H. Mitcheliana</i> Lea.	Hill-sides, river bottoms.
7	113	<i>concava</i> Say.	Dry ridges, riv. bottoms.
7	114	<i>electrina</i> Gould.	Moist places.
7	115	<i>fallax</i> Say.	Hill-sides, river bottoms.
7	116	<i>fraterna</i> Say.	Hill-sides, river bottoms.
8	117	<i>fuliginosa</i> Griffith.	Rocky places, &c.
8	118	<i>hirsuta</i> Say.	River bottoms, &c.
8	119	<i>hydrophilia</i> Ingalls.	Swamp prairies.
8	120	<i>inflecta</i> Say.	Hill-sides, river bottoms.
8	121	<i>inornata</i> Say.	
8	122	<i>intertexta</i> Say.	Dry woodlands.
8	123	<i>indentata</i> Say.	Woodlands.
8	124	<i>lineata</i> Say.	Moist woodlands.
8	125	<i>Leaii</i> Ward.	Swamp prairies.
8	126	<i>labyrinthica</i> Say.	Moist places.
8	127	<i>liamatula</i> Ward.	Moist woodlands.
8	128	<i>liger</i> Say. var. <i>H. Wardiana</i> Lea.	Moist woodlands.
8	129	<i>minutissima</i> Lea.	Moist places.
8	130	<i>miniscula</i> Binney.	Moist places.
8	131	<i>monodon</i> Rackett.	Hill-sides.
8	132	<i>multilineata</i> Say.	Swamp prairies.
8	133	<i>palliat</i> a Say.	River bottoms.
8	134	<i>perspectiva</i> Say.	Woodlands, dry ridges.
8	135	<i>profunda</i> Say.	Hill-sides, river bottoms.
8	136	<i>Pennsylvanica</i> Green.	Hill-sides, river bottoms.
8	137	<i>pulchella</i> Muls.	Gardens in the city.
8	138	<i>solitaria</i> Say.	Dry ridges, &c.
8	139	<i>striatella</i> Anthony.	Moist places.
8	140	<i>suppressa</i> Say.	
8	141	<i>tridentata</i> Say.	Rocky places.
8	142	<i>thyroidea</i> Say.	Dry ridges, &c.
8	143	<i>zaleta</i> Say.	Hill-sides, &c.
8	144	<i>Helicina orbiculata</i> Say.	Swamp prairies.

True.—Shells gathered about Salem, Mass., with particular localities designated and remarks on the species: by JOSEPH TRUE. (Proceed. of the Essex Institute, vol. ii, pt. 1. Salem, 1858. [No descriptions are given.]

Page.		Page.	
188	<i>Teredo navalis.</i>	191	<i>Cardium Islandicum.</i>
188	<i>Pholas dactylus.</i>	191	<i>pinnulatum.</i>
188	<i>crispata.</i>	191	<i>Cardita borealis.</i>
189	<i>Solen ensis.</i>	191	<i>Nucula limatula.</i>
189	<i>Machæra costata.</i>	191	<i>myalis.</i>
189	<i>Solemya velum.</i>	191	<i>minuta.</i>
189	<i>borealis.</i>	191	<i>sapotilla.</i>
189	<i>Glycimeris siliqua.</i>	191	<i>tenuis.</i>
189	<i>Mya arenaria.</i>	191	<i>proxima.</i>
189	<i>Pandora trilineata.</i>	191	<i>Unio complanatus.</i>
189	<i>Osteodesma hyalina.</i>	191	<i>radiatus.</i>
189	<i>Cochleodesma Leana.</i>	191	<i>nasutus.</i>
190	<i>Thracia Conradi.</i>	191	<i>Anodon fluviatilis.</i>
190	<i>Mactra solidissima.</i>	191	<i>implicata.</i>
190	<i>lateralis.</i>	191	<i>Mytilus edulis.</i>
190	<i>ovalis.</i>	191	<i>pellucidus.</i>
190	<i>Mesodesma arcata.</i>	192	<i>Modiola modiolus.</i>
190	<i>Montacuta bidentata.</i>	192	<i>plicatula.</i>
190	<i>Kellia rubra.</i>	192	<i>discrepans.</i>
190	<i>Saxicava distorta.</i>	192	<i>glandula.</i>
190	<i>Petricola pholadiformis.</i>	192	<i>Pecten Islandicus.</i>
190	<i>Sanguinolaria fusca.</i>	192	<i>Magellanicus.</i>
190	<i>Tellina tenera.</i>	192	<i>concentricus.</i>
190	<i>Lucina filosa Stimpson.</i>	192	<i>Anomia ephippium.</i>
190	<i>flexuosa.</i>	192	<i>aculeata.</i>
190	<i>Cyclas elegans.</i>	192	<i>squamula.</i>
190	<i>truncata.</i>	192	<i>Terebratula caput-ser-</i>
190	—.	<i>pentis.</i>	
190	<i>Pisidium dubium.</i>	192	<i>Chiton fulminatus.</i>
190	<i>pusillum.</i>	192	<i>ruber.</i>
190	<i>minus.</i>	192	<i>albus.</i>
191	<i>Astarte castanea.</i>	192	<i>Emersonianus.</i>
191	<i>sulcata.</i>	192	<i>Lottia testudinalis.</i>
191	<i>quadrans.</i>	192	<i>alveus.</i>
191	<i>Cyprina Islandicus.</i>	192	<i>Dentalium dentale.</i>
191	<i>Cytherea convexa.</i>	192	<i>Cemoria Noachina.</i>
191	<i>Venus mercenaria.</i>	192	<i>Crepidula fornicata.</i>
191	<i>gemma.</i>		(Not finished.)

Say—W. G. Binney.—The Complete Writings of THOMAS SAY on the Conchology of the United States: edited by W. G. BINNEY. New York, 1858.

[Under this title are collected all the descriptions and figures of recent shells published by Mr. Say. In the following tables reference is given to the original publications and to the reprint.—W. G. B.]

Say.—1. The article "Conchology." (From the American edition of Nicholson's Encyclopedia of Arts and Sciences, vol. ii. First edition. Philadelphia, 1816.)

[There is no paging. I am indebted to the kindness of Mr. S. Hanley for the date and references to this edition. I have never been able to obtain access to a copy of it, though I have searched for it in all the principal libraries of Boston, New York, and Philadelphia. The second and third editions are common. The original manuscript is preserved in the library of the Philadelphia Academy of Natural Sciences. This paper was also distributed separately with a distinct title-page, "Descriptions of Land and Fresh-water Shells of the United States."—W. G. B.]

NICH. ED.		BINNEY'S ED.		Name.	Locality.
Pl.	Fig.	Pl.	Fig.		
i	1	5	lxix	1 <i>Helix albolabris</i> Say.	
iv	4	5	lxxii	4 <i>arborea</i> Say.	
ii	1	6	lxx	1 <i>tridentata</i> Say.	Middle States.
i	2	6	lxix	2 <i>alternata</i> Say.	
i	3	6	lxix	3 <i>glaphyra</i> Say.	Mr. Ord's garden, Phila.
i	7	47	lxix	7 <i>Limnæa subcarinata</i> Say.	
ii	4	47	lxx	4 <i>virginica</i> Say.	
ii	5	48	lxx	5 <i>vivipara</i> Say.	Lakes.
				<i>Helix vivipara.</i>	
ii	6	49	lxx	6 <i>decisa</i> Say.	
ii	3	45	lxx	3 <i>catascopium</i> Say.	Delaware river, &c.
		46		<i>jugularis</i> Say.	
i	6	46	lxix	6 <i>heterostropha</i> Say.	
ii	2	44	lxx	2 <i>Planorbis trivolvus</i> Say.	Lake Erie.
i	4	44	lxix	4 <i>bicarinatus</i> Say.	
i	5	45	lxix	5 <i>parvus</i> Say.	Delaware river.
iv	5	7	lxxii	5 <i>Odostomia corticaria</i> Say.	
i	8	49	lxix	8 <i>Unio crassus</i> Say.	Ohio, &c.
		50		<i>plicatus</i> Say.	Lake Erie.
iii	1	50	lxxi	1 <i>purpureus</i> Say.	Delaware river, &c.
		50		<i>ovatus</i> Say.	Ohio, &c.
iii	2	51	lxxi	2 <i>cariosus</i> Say.	Delaware & Schuylkill.

NICH. ED.		BINNEY'S ED.		Name.	Locality.
Pl.	Fig.	Pl.	Fig.		
ii	8	51	lxx	8 Unio ochraceus Say.	Delaware & Schuylkill.
iv	1	52	lxxii	1 nasutus Say.	Delaware & Schuylkill.
iv	2	52	lxxii	2 alatus Say.	Lake Erie.
iv	3	52	lxxii	3 cylindricus Say.	Wabash river.
iii	3	53	lxxi	3 undulatus Say =	Delaware & Schuylkill.
Monodonta Say (n. g.)					
iii	4	53	lxxi	4 Anodonta cataracta Say.	
iii	5	53	lxxi	5 marginata Say.	
iii	6	54	lxxi	6 undulata Say.	
i	9	54	lxix	9 Cyclas similis Say.	Delaware.
i	10	55	lxix	10 dubia Say.	Delaware.

Say.—2. The second edition of the same (vol. iv, 1818) contains the article "Conchology." The references to the plates and localities, being the same as in the first edition, are not repeated. The pages are not numbered.

P. of repr.

5	Hellx albolabris Say.
5	thyroidus Say.
5	arboreus Say.
6	tridentata Say.
6	alternata Say.
	<i>H. radiata</i> Gmel.
	<i>Cochlea umbilicata</i> , &c.
7	glaphyra Say. [Lister.
44	Planorbis trivolvus Say.
	<i>Cochlea trium orbium</i> , &c.
	Lister.
44	bicarinatus Say.
45	parvus Say.
45	Lymnæa catascoplum Say.
46	jugularis Say.
46	heterostropha Say.
47	subcarinata Say.
47	virginica Say.
48	vivipara Linn.
49	decisa Say.

P. of repr.

7	Odostomia corticaria Say.
49	Unio crassus Say.
50	plicatus Say.
50	purpureus Say.
50	ovatus Say.
51	cariosus Say.
	<i>Musculus latior</i> , &c. List.
51	ochraceus Say.
52	nasutus Say.
	<i>Musculus fuscus</i> , &c. List.
52	alatus Say.
52	cylindricus Say.
53	Monodonta Say (n. g.)
53	undulatus Say.
53	Anodonta cataracta Say.
53	marginata Say.
53	undulata Say.
54	Cyclas similis Say.
55	dubia Say.

Say.—3. The third edition of the same, published in Philadelphia, 1819 (vol. iv.), has the following species in addition to those contained in the second edition. A few generic names are changed, the species being in these cases repeated below.

P. of repr.	Name.	Locality.
7	Helix labyrinthica Say.	
7	hirsuta Say.	
7	perspectiva Say.	Lake Erie.
7	lineata Say.	Philadelphia.
7	Polygyra Say (n. g.)	
7	auriculata Say.	Florida.
7	avara Say.	Florida.
7	septemvolva Say.	Georgia and Florida.
7	Oligyra Say (n. g.)	
7	orbiculata Say.	East Florida.
56	Planorbis glabratus Say.	South Carolina.
56	Limnæa columella Say.	
7	Succinea campestris Say.	Georgia and Florida.
7	ovalis Say.	
56	Cyclostoma tricarinata Say.	Delaware river.
56	Ancylus rivularis Say.	
56	Paludina limosa Say.	Delaware and Schuylkill.
56	lapidaria Say.	
47	subcarinata Say.	
	(<i>Lymanæa</i> , 1st edition.)	
47	virginica Say.	Lakes.
	(<i>Lymanæa</i> , 1st edition.)	
48	vivipara Linn.	
	(<i>Lymanæa</i> , 1st edition.)	
48	dissimilis Say.	Pennsylvania.
49	decisa Say.	
	(<i>Lymanæa</i> , 1st edition.)	
7	Pupa corticaria Say.	
	(<i>Odostomia</i> Say, 1st edition.)	
7	Polyphemus glans Say.	
56	Alasmodonta Say (n. g.)	
	(<i>Monodonta</i> Say, 1st edition.)	
56	marginata Say.	
53	undulata Say.	
	<i>Monodonta undulata</i> Say, 1st ed.	
56	Cyrena Carolinensis Bosc.	Georgia, S. C., Florida.
	<i>Cyclus Carolinensis</i> Bosc.	

Say.—4. On the Genus *Ocythoë*: being an extract of a letter from THOS. SAY, Esq., of Philadelphia, to WM. ELFORD LEACH, M. D., F. R. S. (From the Philosophical Transactions of the Royal Society, 1819, p. 107.)

P. of repr.	Name.	Locality.
56	<i>Ocythoë punctata</i> Say.	Atlantic ocean, near N. A. coast.

Say.—5. Numerous Articles from the Journal of the Academy of Natural Sciences of Philadelphia.

Vol. I. May, 1817.—Description of seven species of American Fresh Water and Land Shells, not noticed in the systems.

Page of Jour.	Page of reprint.	Name.	Locality.
13	59	<i>Cyclostoma tricarinata</i> Say.	Delaware river.
13	59	<i>lapidaria</i> Say.	
14	60	<i>Lymnæa columella</i> Say.	
15	8	<i>Succinea ovalis</i> Say.	

June, 1817.—The same concluded.

17	8	<i>Helix hirsuta</i> Say.	
18	9	<i>perspectiva</i> Say.	Lake Erie.
18	9	<i>lineata</i> Say.	Philadelphia.

October, 1817.—Descriptions of new species of Land and Fresh Water Shells of the United States.

123	9	<i>Helix thyroidus</i> Say.	
123	10	<i>minuta</i> Say.	
124	10	<i>labyrinthica</i> Say.	
125	60	<i>Ancylus rivularis</i> Say.	
125	61	<i>Paludina limosa</i> Say.	Del. and Schuyl. rivs.

June, 1818.—Account of two new genera, and several new species, of Fresh Water and Land Shells.

276	10	<i>Polygyra</i> Say (n. g.)	
277	10	<i>auriculata</i> Say.	Florida.
277	11	<i>avara</i> Say.	Florida.
278	11	<i>septemvolva</i> Say.	Florida and Georgia.
280	61	<i>Planorbis glabratus</i> Say.	South Carolina.
281	12	<i>Succinea campestris</i> Say.	East Florida.
282	13	<i>Polyphemus glans</i> Brug.	Louisiana to Georgia.
283	13	<i>Olygyra</i> Say (n. g.)	
283	13	<i>orbiculata</i> Say.	East Florida.

December, 1818.—Description of a new genus of Fresh Water Bivalve Shells.

Page of Jour.	Page of reprint.	Name.	Locality.
459	62	<i>Alasmodonta Say.</i> (<i>Monodonta Say</i> , preec.)	
459	62	<i>marginata Say.</i>	Scioto river.
	62	<i>undulata Say (Monodonta.)</i>	

Vol. II. January, 1821.—Descriptions of Univalve Shells of the United States.

150	15	<i>Helix multilineata Say.</i>	Illinois and Missouri.
151	15	<i>appressa Say.</i>	Ohio and Missouri rivs.
152	16	<i>palliat a Say.</i>	Illinois and Ohio.
153	16	<i>inflecta Say.</i>	Lower Missouri.
154	17	<i>clausa Say.</i>	Illinois.
154	17	<i>obstricta Say.</i>	Ohio.
154	17	<i>elevata Say.</i>	Ohio.
155	18	<i>interna Say.</i>	Lower Missouri.
156	18	<i>chersina Say.</i>	Sea islands of Georgia.
156	18	<i>gularis Say.</i>	Ohio, Pennsylvania.
157	19	<i>ligera Say.</i>	Missouri.
157	19	<i>solitaria Say.</i>	Lower Missouri.
158	19	<i>jejuna Say.</i>	Southern States.
159	20	<i>concava Say.</i>	Illinois and Missouri.
159	20	<i>dealbata Say.</i>	Missouri and Alabama.
160	20	<i>profunda Say.</i>	B'ks of Ohio, Miss., Mo.
161	21	<i>albolabris Say.</i>	Council Bluff.
161	21	<i>thyroidus Say.</i>	B'ks of Ohio, Mo., Miss.
161	21	<i>alternata Say.</i>	B'ks of Ohio, Mo., Miss.
161	21	<i>hirsuta Say.</i>	Council Bluff.
161	21	<i>labyrinthica Say.</i>	Council Bluff.
161	21	<i>minuta Say.</i>	Council Bluff.
161	21	<i>perspectiva Say.</i>	Banks of Missouri, &c.
161	21	<i>Polygyra plicata Say.</i>	Alabama.
162	21	<i>Pupa armifera Say.</i>	Upper Missouri.
163	22	<i>rupicola Say.</i>	East Florida.
163	22	<i>Succinea ovalis Say.</i>	Missouri.
164	63	<i>Planorbis armigerus Say.</i>	Upper Missouri.
164	63	<i>trivolv is Say.</i>	Council Bluff.
164	63	<i>bicar inatus Say.</i>	Council Bluff.
164	63	<i>parvus Say.</i>	Council Bluff.
164	63	<i>parallelus Say.</i>	Upper Missouri.
165	64	<i>exacuons Say.</i>	Lake Champlain.
166	64	<i>campanulatus Say.</i>	Lake Cayuga.

Page of Jour.	Page of reprint.	Name.	Locality.
167	65	<i>Lymneus elongatus Say.</i>	Upper Missouri.
167	65	<i>columellus Say.</i>	Cold-water creek, Mo.
167	65	<i>reflexus Say.</i>	Lakes Erie & Superior.
168	66	<i>appressus Say.</i>	Lake Superior.
169	66	<i>elodes Say.</i>	Canandaigua lake, &c.
169	66	<i>desidiosus Say.</i>	Cayuga lake.
170	67	<i>macrostomus Say.</i>	Cayuga lake.
170	67	<i>emarginatus Say.</i>	Maine.
171	67	<i>Physa gyrina Say.</i>	Missouri.
171	68	<i>elongata Say.</i>	Illinois.
172	68	<i>heterostropha Say.</i>	Council Bluff.
172	68	<i>Cyclostoma marginata Say.</i>	Upper Missouri.
173	68	<i>Valvata tricarinata Say.</i>	Council Bluff.
173	68	<i>Paludina ponderosa Say.</i>	Ohio river.
174	69	<i>integra Say.</i>	Missouri.
174	69	<i>porata Say.</i>	Cayuga lake.
175	69	<i>lustrica Say.</i>	Cayuga lake.
175	69	<i>Melania canaliculata Say.</i>	Ohio river.
176	70	<i>elevata Say.</i>	Ohio river.
176	70	<i>conica Say.</i>	Ohio river.
177	70	<i>prærosa Say = Anculotus</i> (n. g.)	Ohio river.
178	71	<i>armigera Say.</i>	Ohio river.
178	71	<i>Bulla fluviatilis Say.</i>	Delaware river.

June, 1822.—An account of some of the Marine Shells of the United States, p. 221.

223	73	<i>Patella amœna Say.</i>	New England.
224	73	<i>Fissurella alternata Say.</i>	Maryland, &c.
225	73	<i>Crepidula fornicata.</i>	
225	74	<i>depressa Say.</i>	Southern coast.
226	74	<i>glaucia Say.</i>	
226	74	<i>plana Say.</i>	New Jersey to Florida.
227	74	<i>intorta (var. ?) Say.</i>	Southern coast.
227	75	<i>convexa Say.</i>	
228	75	<i>Oliva mutica Say.</i>	Southern coast.
229	75	<i>Buccinum ornatum Say.</i>	East Florida.
230	76	<i>Columbella avara Say.</i>	Maryland and south.
231	77	<i>Nassa vibex Say.</i>	Southern and middle.
231	77	<i>trivittata Say.</i>	Southern and middle.
232	77	<i>obsoleta Say.</i>	
234	78	<i>acuta Say.</i>	Southern coast.
235	79	<i>Cerithium dislocatum Say.</i>	Maryland to Florida.
236	79	<i>Fusus cinereus Say.</i>	Maryland and N. J.
236	80	<i>Ranella caudata Say.</i>	

Page of Jour.	Page of reprint.	Name.	Locality.
237	80	<i>Fulgur pyruloides</i> Say.	Southern coast.
238	81	<i>Pyrula papyratia</i> Say.	Ga., E. Fla., W. Indies.
239	81	<i>Turbo irroratus</i> Say.	New Jersey to Florida.
240	81	<i>canaliculatus</i> Say.	Southern coast.
240	82	<i>palliatu8</i> Say.	New England.
241	82	<i>obligatus</i> Say.	Portland, Maine.
241	82	<i>vestita</i> Say.	Maine.
242	83	<i>Scalaria lineata</i> Say.	Southern coast.
243	83	<i>Turritella alternata</i> Say.	
244	84	<i>impressa</i> Say.	Maryland.
244	84	<i>Turritella bisuturalis</i> Say.	Boston.
245	84	<i>Bulla solitaria</i> Say.	Southern coast.
246	84	<i>Melampus bidentatus</i> Say.	East Florida.
246	85	<i>var. lineatus</i> Say.	
247	85	<i>Natica duplicata</i> Say.	
		<i>N. rugosa</i> Say, olim.	
248	86	<i>heros</i> Say.	New Jersey.
257	87	<i>pusilla</i> Say.	Southern coast.
257	87	<i>Theodoxus reclivatus</i> Say.	East Florida.
258	88	<i>Ostrea semicylindrica</i> Say.	Georgia and Florida.
259	88	<i>Pecten concentricus</i> Say.	N. Jersey, N. England.
260	89	<i>var. borealis</i> Say.	New England.
260	89	<i>dislocatus</i> Say.	Southern coast.
261	89	<i>Pandora trilineata</i> Say.	S'n and middle coast.
262	90	<i>Avicula hirundo</i> Say.	S'n coast, W. Indies.
263	90	<i>Mytillus cubitus</i> Say.	
264	91	<i>lateralis</i> Say.	Southern coast.
265	91	<i>hamatus</i> Say.	Gulf of Mexico.
265	91	<i>Modiola Americana</i> Leach (var.)	Southern coast.
266	92	<i>castanea</i> Say.	Southern coast.
267	92	<i>Arca ponderosa</i> Say.	Southern coast.
268	93	<i>pexata</i> Say.	
268	93	<i>incongrua</i> Say.	
269	93	<i>transversa</i> Say.	
270	94	<i>Nucula proxima</i> Say.	Southern coast.
271	94	<i>Venus notata</i> Say.	N. England to Georgia.
271	95	<i>præparca</i> Say.	
272	95	<i>elevata</i> Say.	Southern coast.
273	95	<i>inequalis</i> Say.	Middle coast.
273	96	<i>castanea</i> Say.	New Jersey.
274	96	<i>Cytherea occulta</i> Say.	Southern coast.
275	96	<i>Tellina alternata</i> Say.	Georgia and Florida.
276	97	<i>polita</i> Say.	Southern coast.
302	98	<i>iris</i> Say.	Southern coast.

Page of Jour.	Page of reprint.	Name.	Locality.
303	98	<i>Tellina flexuosa Say.</i>	Southern coast.
303	98	<i>tenera Say.</i>	New Jersey.
304	99	<i>Psammobia? lusoria Say.</i>	Southern States.
305	99	<i>Donax variabilis Say.</i>	Georgia and Florida.
306	99	<i>fossor Say.</i>	N. J. and Maryland.
307	100	<i>Amphidesma orbiculata Say.</i>	Georgia.
307	100	<i>æqualis Say.</i>	Southern coast.
308	101	<i>punctata Say.</i>	Southern coast.
309	101	<i>Macra similis Say.</i>	New Jersey, &c.
309	101	<i>lateralis Say.</i>	Whole coast.
310	102	<i>oblonga Say.</i>	Georgia.
310	102	<i>Lutraria lineata Say.</i>	Georgia and Florida.
311	102	<i>canaliculata Say.</i>	Maryland to Florida.
312	103	<i>Corbula contracta Say.</i>	Georgia and Florida.
313	103	<i>Mya acuta Say.</i>	Southern coast.
313	103	<i>mercenaria Say.</i>	
314	104	<i>Anatina papyratia Say.</i>	Southern coast.
315	104	<i>Solen costatus Say.</i>	New Jersey.
316	104	<i>centralis Say.</i>	Southern coast.
316	105	<i>viridis Say.</i>	Southern coast.
317	105	<i>Solemya velum Say.</i>	Southern coast.
318	106	<i>Saxicava distorta Say.</i>	Southern coast.
319	106	<i>Petricola fornicata Say.</i>	
320	107	<i>Pholas oblongata Say.</i>	Georgia to Florida.
321	107	<i>truncata Say.</i>	Southern coast.
322	108	<i>cuneiformis Say.</i>	Southern coast.

December, 1822.—Descriptions of Univalve, Terrestrial, and Fluviatile Shells of the United States.

370	23	<i>Helix irrorata Say.</i>	Northumberland Co., Pa.
371	24	<i>inornata Say.</i>	Pennsylvania.
372	24	<i>indentata Say.</i>	Pennsylvania, N. J.
373	24	<i>lineata Say.</i>	Near Philadelphia.
373	25	<i>Bulimus multilatus Say.</i>	South Carolina.
374	25	<i>Pupa contracta Say.</i>	Virginia.
375	26	<i>exigua Say.</i>	Harrowgate.
375	26	<i>Vertigo ovata Say.</i>	Harrowgate.
376	27	<i>pentodon Say.</i>	Pennsylvania.
377	27	<i>Melampus obliquus Say.</i>	South Carolina.
378	110	<i>Lymneus humilis Say.</i>	S. C. and Oswego.
378	110	<i>Paludina grana Say.</i>	Pennsylvania.
379	111	<i>Melania catenaria Say.</i>	South Carolina.
380	111	<i>multilineata Say.</i>	Delaware.
380	111	<i>Cyclas rhomboida Say.</i>	Lake Champlain.
380	112	<i>partumeia Say.</i>	Germantown.

Vol. IV. September 1825.—On a new species of *Modiola*, p. 368.

Page of Jour.	Page of reprint.	Name.	Locality.
369	112	<i>Modiola opifex</i> Say. Plate xix, fig. 2, a, b; reprint, pl. lxx.	Island of Minorca.

Vol. V. September, 1825.—Descriptions of some new species of
Fresh Water and Land Shells of the United States, p. 119.

119	27	<i>Helix fallax</i> Say.	Philadelphia.
120	28	<i>egena</i> Say.	Above Philadelphia.
120	28	<i>Bulimus multilineatus</i> Say.	Southern Florida.
121	28	<i>Pupa fallax</i> Say.	Milton, Mass.
122	29	<i>Achatina solida</i> Say.	Southern Florida.
122		<i>flammigera</i> Fer.	Southern Florida.
122		<i>vexillum</i> Hum.	Southern Florida.
122	113	<i>Lymneus modicellus</i> Say.	Owego.
123	113	<i>obrussus</i> Say.	Harrowgate.
123	114	<i>pinguis</i> Say.	Del. and Schuylkill.
123	114	<i>galbanus</i> Say (fossil).	New Jersey.
124	114	<i>Physa ancillaria</i> Say.	Easton, Pa., and Conn.
125	29	<i>Cyclostoma dentata</i> Say.	Florida.
125	115	<i>Paludina subglobosa</i> Say.	N. W. Territory.
126	115	<i>Melania simplex</i> Say.	Abingdon, Va.
126	115	<i>proxima</i> Say.	N. and S. Carolina.
128	116	<i>(Anculotus) subglobosa</i> Say.	Holstein riv., Va.
128	116	<i>Pirena scalariformis</i> Say.	Florida Keys.

November, 1825.

129	117	<i>Fusus fluvialis</i> Say.	Holstein river.
130	118	<i>Unio subtentus</i> Say.	Holstein river.
130	118	<i>cariosus</i> Say.	Holstein river.
131	119	<i>Alasmodonta ambigua</i> Say.	N. W. Territory.

February, 1826.—Descriptions of Marine Shells recently discovered
on the coast of the United States.

207	118	<i>Delphinula laxa</i> Say.	South Carolina.
207	119	<i>Turritella concava</i> Say.	
208	119	<i>æqualis</i> Say.	
208	119	<i>Scalaria multistriata</i> Say.	Southern coast.
209	120	<i>Infundibulum depressum</i> Say.	South Carolina.
209	120	<i>Natica triseriata</i> Say.	Boston.
211	121	<i>Volvaria canaliculata</i> Say.	South Carolina.
211	121	<i>Nassa uncinata</i> Say.	South Carolina.
212	122	<i>alba</i> Say.	Florida and W. Indies.
213	122	<i>lunata</i> Say.	Southern States.
214	123	<i>Fusus decemcostatus</i> Say.	Boston.
215	123	<i>bicolor</i> Say.	East Florida.

Page of Jour.	Page of reprint.	Name.	Locality.
215	124	<i>Patella alternata Say.</i>	East Florida.
216	124	<i>Calyptrea (Dispotæa) striata Say.</i>	New Jersey.
216	124	<i>Venericardia tridentata Say.</i>	South Carolina.
218	125	<i>Tellina intastriata Say.</i>	Florida.
218	126	<i>lateralis Say.</i>	
219	126	<i>decora Say.</i>	Florida.
219	126	<i>Psammobia fusca Say.</i>	Georgia.
220	127	<i>Amphidesma radiata Say.</i>	Georgia and Florida.
221	127	<i>lepida Say.</i>	South Carolina.

Say.—6. Narrative of an Expedition to the Source of the St. Peter's River, &c. &c., under the command of Major STEPHEN II. LONG, vol. ii, Appendix. 1824.

LONG'S EXP.			REPRINT.			Name.	Locality.
Pa.	Pl.	Fig.	Pa.	Pl.	Fig.		
256	xv	1	29	lxxiv	1	<i>Helix harpa Say.</i>	N. W. Territory.
257	xv	2	30	lxxiv	2	<i>porcina Say.</i>	N. W. Territory.
257	xv	3	30	lxxiv	3	<i>fraterna Say.</i>	Pennsylvania.
257	xv	4	30	lxxiv	4	<i>diodonta Say.</i>	New York.
258			31			<i>perspectiva Say.</i>	N. W. Territory.
258			31			<i>arborea Say.</i>	N. W. Territory.
258			31			<i>chersina Say.</i>	N. W. Territory.
258			31			<i>albolabris Say.</i>	Lake Superior.
258			31			<i>alternata Say.</i>	Lake Superior.
258			31			<i>thyroidus Say.</i>	Niagara Falls.
258			31			<i>ligera Say.</i>	N. W. Territory.
258			31			<i>Vitrina pellucida Müll.</i>	Lake Superior.
259			31			<i>Bulimus lubricus Say.</i>	N. W. Territory.
259	xv	5	32	lxxiv	5	<i>Pupa modesta Say.</i>	N. W. Territory.
260	xv	6	32	lxxiv	6	<i>Succinea avara Say.</i>	N. W. Territory.
260	xv	7	32	lxxiv	7	<i>obliqua Say.</i>	Niagara Falls.
261	xv	8	128	lxxiv	8	<i>Planorbis deflectus Say.</i>	N. W. Territory.
262	xv	9	128	lxxiv	9	<i>corpulentus Say.</i>	N. W. Territory.
262			129			<i>campanulatus Say.</i>	Niagara Falls.
262			129			<i>trivolis Say.</i>	N. W. Ter., Nia. F.
262			129			<i>parvus Say.</i>	N. W. Territory.
263			129			<i>armigerus Say.</i>	St. Peter & Red ri.
263			129			<i>bicarinatus Say.</i>	N. W. Territory.
263	xv	10	129	lxxiv	10	<i>Lymneus megasomus Say.</i>	N. W. Territory.
263			130			<i>emarginatus Say.</i>	Lake Namekan.
263			130			<i>elongatus Say.</i>	Rainy la., Seiner.
263			130			<i>desidiosus Say.</i>	Falls of Niagara.
264			130			<i>Physa heterostropha Say.</i>	N. W. Territory.
264	xv	11	130	lxxiv	11	<i>Valvata sincera Say.</i>	N. W. Territory.
264			130			<i>Paludina limosa Say.</i>	N. W. Territory.
264	xiv	2	130	lxxiii	2	<i>Ampullaria depressa Say.</i>	East Florida.
265			131			<i>Melania virginica Say.</i>	Falls of Niagara.
265	xiv	3, 4	131	lxxiii	3, 4	<i>Anodonta gibbosa Say.</i>	South Carolina.

Say.—7. Descriptions of some new Terrestrial and Fluvialile Shells of North America, 1829, 1830, 1831. New Harmony, Ind., 1840.

[This consists of a reprint by Mrs. Say of some of the descriptions contained in "The New Harmony Disseminator of Useful Knowledge," and in the "Transylvania Journal of Medicine." It is referred to in the left-hand column of the two succeeding articles.—W. G. B.]

Say.—8. Descriptions of some New Terrestrial and Fluvialile Shells of North America. (New Harmony Disseminator of Useful Knowledge.)

Vol. II, No. 15.—July 29, 1829.

Page of Say's reprint.	Page of N. H. Binney's Diss.	Page of Binney's edition.	Name.	Locality.
13	229	36	<i>Helix lucubrata Say.</i>	Mexico.
14	229	36	<i>suppressa Say.</i>	Pennsylvania.
14	229	37	<i>fatigiata (Polygyra) Say.</i>	New Harmony.
24	230	38	<i>Pupa placida Say.</i>	Massachusetts.
23	230	38	<i>Succinea vermata Say.</i>	New Harmony.
24	230	38	<i>undulata Say.</i>	Mexico.
23	230	148	<i>Lymneus caperatus Say.</i>	Indiana.

No. 16.—August 12, 1829.

23	244	148	<i>Lymneus attenuatus Say.</i>	Mexico.
22	244	148	<i>Valvata humeralis Say.</i>	Mexico.
20	244	146	<i>Paludina intertexta Say.</i>	Louisiana.
20	245	145	<i>transversa Say.</i>	Louisiana.
20	245	146	<i>elongata Swainson.</i>	St. John's riv., Fla.
			<i>P. multilineata Say.</i>	
20	245	146	<i>subpurpurea Say.</i>	Fox river.
21	245	147	<i>Ampullaria rotundata Say.</i>	St. John's riv., Fla.

No. 17.—August 28, 1829.

22	260	147	<i>Ampullaria depressa Say = A. paludosa.</i>	
22	260	147	<i>Ampullaria flagellata Say.</i>	Mexico.
16	260	141	<i>Melania nupera Say.</i>	Wabash.
16	260	141	<i>cancellata Say.</i>	Florida.
16	261	142	<i>semicarinata Say.</i>	Kentucky.
17	261	142	<i>undulata Say.</i>	Ohio.
17	261	142	<i>stygia Say.</i>	Cumberland river.

No. 18.—September 9, 1829.

Page of Say's reprint.	Page of N. H. Diss.	Page of Binney's edition.	Name.	Locality.
17	275	143	<i>Melania laqueata Say.</i>	Cumberland river.
18	276	143	<i>obovata Say.</i>	Kentucky river.
18	276	144	<i>integra Say.</i>	Ohio river.
19	227	144	<i>isogona Say.</i>	Bear-grass cr., Louisville.
19	227	144	<i>trilineata Say.</i>	Falls of Ohio.

No. 19.—September 23, 1829.

19	291	145	<i>Melania depygis Say.</i>	Falls of Ohio.
	291	165	<i>Unio heros Say.</i>	Fox river.
	291	225	<i>peruvianus</i> Auct. Am. = <i>U. plicatus.</i>	
5	292	131	<i>cicatricosus Say.</i>	Wabash.
	293	155	<i>monodonta Say.</i>	Falls of Ohio.
5	293	132	<i>velum Say.</i>	Kentucky river.
5	293	132	<i>cardice Say</i> = <i>U. cordata.</i>	
5	283	132	<i>incurvus Say</i> = <i>U. intorta.</i>	

No. 20.—October 7, 1829.

308	131	<i>Unio dehiscens Say.</i>	Wabash.
308	131	<i>ridibundus Say.</i>	Cumberland river.
309	131	<i>personatus Say.</i>	Wabash.
309	131	<i>apiculatus Say.</i>	Near New Orleans.

No. 21.—October 21, 1829.

	323	134	<i>Unio radula Say.</i>	
7	324	134	<i>purpureus Say.</i>	

No. 22.—November 4, 1829.

10	339	137	<i>Alasmodonta sculptilis Say.</i>	Virginia.
	339	131	<i>confragosa Say.</i>	Wabash river.
10	340	137	<i>edentula Say.</i>	Wabash river.
11	340	138	<i>Anodonta implicata Say.</i>	Danvers, Mass.
11	340	138	<i>lugubris Say.</i>	Cumberland river.
12	341	139	<i>grandis Say.</i>	Fox river.

No. 23.—November 18, 1829.

12	355	139	<i>Anodonta impura Say.</i>	Mexico.
13	355	140	<i>imbecillis Say.</i>	Wabash river.
10	356	137	<i>Cyclas edentula Say.</i>	Lake Canandaigua.
10	356	138	<i>transversa Say.</i>	Kentucky.
11	356	138	<i>triangularis Say.</i>	Mexico.

In newspaper form.—December 28, 1831.

P. of Say's reprint.	P. of Binney's edition.	Name.	Locality.
25	39	Bulimus alternatus Say.	Mexico.
25	39	undatus Brug.	Mexico.
25	39	serperastrus Say.	Mexico.
26	40	emeus Say.	Mexico.
15	140	Melania pluristriata Say.	Mexico.

January 15, 1831.

26	149	Ancylus tardus Say.	Wabash river.
6	133	Unio purpuratus Say.	Mexico.
6	133	metallicus Say.	Mexico.
6	134	subrostratus Say.	Wabash.
	132	velum Say.	Kentucky.
26	149	<i>Bulla fluviatilis</i> Say = young Planorbis .	

January 29, 1831.

13	140	Anodonta imbecillis Say.	
	161	suborbiculata Say.	Near Wabash river.

Say.—9. Descriptions of several new species of Shells and of a new species of Lumbricus. (Transylvania Journal of Medicine, vol. iv, 1831. Lexington, Ky.)

Page of Say's reprint.	Page of Tr. J. Binney's Med. edition.	Name.	Locality.
525	149	Unio interruptus Say.	See "Amer. Conch." for locality.
526	149	glebulus Say.	
527	149	nexus Say.	
527	149	declivis Say.	
528	149	lapillus Say.	
15	528	37 Helicina occulta Say.	New Harmony, Ind.

Say.—10. American Conchology; or, Descriptions of the Shells of North America. Illustrated by colored figures from original drawings executed from nature. New Harmony, Ind.

[The numbering of the plates is the same in the original and reprint.]

Part I.—1830.

P. of repr.	Pl.	Name.	Locality.
150	i	Astarte castanea Say. <i>Venus castanea</i> Say.	New Jersey.

P. of repr.	Pl.	Name.	Locality.
151	ii	Pandora trilineata Say.	S'n & middle coast.
152	iii	Oliva literata Lam.	Southern coast.
153	iv	Unio triangularis Barnes. <i>U. cuneatus</i> Sw.	
154	v	<i>sulcatus</i> Lea. <i>U. flagellatus</i> Say MS.	Wabash & Ohio rivs.
154	v	ridibundus Say. var. perplexus .	Cumberland river.
155	vi	monodonta Say.	Wabash & Ohio rivs.
156	vii	Delphinula? <i>laxa</i> Say.	Charleston.
157	viii	Melania nupera Say.	Wabash river.
157	viii	depygis Say.	Ohio river.
158	ix	Lutraria lineata Say. <i>L. papyracea</i> Lam.?	N. Jersey to Florida.
159	x	Paludina decisa Say.	
159	x	<i>Cochlea Virginiana</i> , &c. Lister. vivipara Linn. <i>Cochlea vivipara</i> , &c. Lister. <i>Helix vivipara</i> Linn. <i>Nerita vivipara</i> Müll. <i>Cyclostoma vivipara</i> Dr. <i>Le vivipare à bandes</i> Geoff. Cuv.	Florida, S. Carolina.

Part II.—April, 1831.

161	xi	Anodonta suborbiculata Say.	Wabash river.
163	xii	Nucula limatula Say.	Nahant, Mass.
164	xii	<i>lævis</i> Say (fossil).	
164	xii	<i>concentrica</i> Say (fossil).	
33	xiii	Helix albolabris Say. <i>Cochlea Virginiana</i> , &c. Lister.	Canada to S. C.
33	xiii	thyroidus Say. <i>Cochlea umbilicata</i> , &c. Lister. <i>terrestris</i> , &c. Schröter.	
164	xiv	Unio ellipsis Lea.	
165	xv	subtentus Say.	Holstein river, S. C.
165	xvi	undulatus Barnes. <i>U. heros</i> Say.	Fox br. of Wabash.
166	xvii	abruptus Say.	Wabash river.
168	xviii	Solecurtus costatus Say. <i>Solen costatus</i> Say.	Mass. to N. Jersey.
169	xix	Fulgur pyruloides Say. <i>Bulla ficus</i> (var. b) Gmelin. <i>Pyrula spirata</i> Lam. <i>Bulla pyrum</i> Dillw.	South of New Jersey.

P. of repr.	Pl.	Fig.	Name.	Locality.
34	xx		Glandina truncata Gmelin. <i>Buccinum striatum</i> Chemn. <i>Bulla truncata</i> Gmelin. <i>Polyphemus glans</i> Say. <i>Helix rosca</i> Fer. <i>E. flumine</i> , &c. Lister.	S. C., Ga., Fla., Miss.
Part III.—September, 1831.				
171	xxi		Alasmodonta confragosa Say.	Fox br. of Wabash riv., New Orleans.
171	xxii		Unio phaseolus Hildreth. <i>U. cuneatus</i> (var.) Barnes. <i>planulatus</i> Lea.	Wabash river.
173	xxiii		tetralasmus Say.	New Orleans.
173	xxiv		dehiscens Say.	Wabash river.
175	xxv		Sigaretus perspectivus Say.	N. Jersey and South.
176	xxv		maculatus Say.	Southern coast.
177	xxvi		Venus grata Say.	W. coast of Mexico.
179	xxvii		Scalaria clathrus L. <i>Turbo clathrus</i> L. <i>S. communis</i> Lam. <i>clathrus</i> Auct.	
180	xxvii		multistriata Say.	S. Carolina, Florida.
180	xxvii		lineata Say.	Southern coast.
181	xxviii		Amphidesma transversum Say.	Georgia.
182	xxviii		æquale Say.	Charleston, S. C.
183	xxix		Fusus corneus Linn. <i>Murex corneus</i> L. <i>F. Islandicus</i> Martini. <i>Murex Islandicus</i> Gmelin.	New Jersey.
184	xxix		cinereus Say.	Maryland, N. Jersey.
184	xxx	1	Paludina ponderosa Say.	Ohio river.
185	xxx	2	subpurpurea Say.	Fox river.
185	xxx	3, 4	intertexta Say.	New Orleans.
Part IV.—March, 1832.				
187	xxxi	1	Limneus umbrosus Say. <i>L. elongatus</i> Say.	Council Bluff, U. Can.
188	xxxi	2	reflexus Say.	Lake Superior.
188	xxxi	3	elodes Say. <i>L. palustris</i> Lin.?	New York.
188	xxxii		Unio ventricosus Barnes. <i>U. ovatus</i> (var. b) Lam. <i>occidens</i> Lea?	Western waters.
189	xxxiii		interruptus Say.	Bayou Teche.

P. of repr.	Pl	Fig.	Name.	Locality.
190	xxxiv		Unio glebulus Say.	Bayou Teche.
190	xxxv		declivis Say.	Bayou Teche.
192	xxxvi	2	Arca staminea Say (fossil).	
192	xxxvi	1	lienosa Say (fossil).	
35	xxxvii	1	Helix clausa Say.	Western States.
35	xxxvii	2	elevata Say.	Western States.
			<i>H. Knoxvilleana</i> Fer.	
36	xxxvii	3	profunda Say.	Western States.
			<i>H. Richardii</i> Lam.	
192	xxxviii		Siphonaria alternata Say.	East Florida.
193	xxxix		Bullina canaliculata Say.	South Carolina.
			<i>Volvaria canaliculata</i> Say.	
194	xl		Cardita tridentata Say.	South Carolina.
			<i>Venericardia tridentata</i> Say.	
			On page 4 of cover—	
195			Alasmodonta fragosa Say.	Bay. Teche, not N. O.
195			Ampullaria urceus L.	Doubtful in the Mississippi.
			<i>A. rugosa</i> Lam.	

Part V.—August, 1832.

195	xli		Unio lapillus Say.	
196	xlii		camptodon Say.	New Orleans.
196	xliii		lugubris Say.	Bayou Teche, La.
			<i>U. ater</i> Lea.	
198	xliv		Crepidula plana Say.	New York to Florida.
199	xlv		Modiola papuana d'Arg.	Maine.
			<i>Musculus papuanus</i> d'Arg.	
			<i>Modiola papuana</i> Lam.	
36	xlvi	1-3	Helicina orbiculata Say.	Florida.
			<i>Olygyra orbiculata</i> Say.	
36	xlvi	4-6	occulta Say.	New Harmony, Ind.
199	xlvii	2	Melania Virginica Gmelin.	Delaware & Schuyl-
			<i>Buccinum Virginicum</i> Gmelin.	kill rivers.
			<i>Paludina Virginica</i> Say.	
			<i>M. fasciata</i> Mke.	
199	xlvii	2	multilineata Say.	Philadelphia & N. J.
			<i>M. curta</i> Mke.	
200	xlvii	4	semicarinata Say.	Kentucky.
200	xlvii	1	laqueata Say.	Cumberland river.
200	xlvi		Ranella caudata Say.	
201	xlix	1	Cerithium muscarum Say.	Florida.
202	xlix	2	septemstriatum Say.	Florida.
203	xlix	3	ferrugineum Say.	Florida.

P. of repr.	Pl.	Fig.	Name.	Locality.
204	1		Mytilus hamatus Say. <i>M. striatus</i> Barnes.	Gulf of Mexico.
205			On page 4 of cover— <i>Sigaretus perspecticus</i> <i>maculatus</i> } = Cryptostoma .	
205			Unio glebulus Say.	Bayou Teche.
205			Venericardia cribraria Say.	New Jersey.
Part VI.—April, 1834.				
205	li		Unio nexu s Say. <i>U. arciformis</i> Lea.	Tennessee.
207	lii		apiculatus Say. <i>U. asper</i> Lea.	New Orleans.
207	liii		quadrulus Raf. <i>U. rugosus</i> Barnes. <i>asperrinus</i> Lea. <i>lachrymosus</i> Lea.	Ohio & N. Orleans.
210	liv	1	Planorbis lentus Say.	N. Orleans & Mexico.
210	liv	2	trivolv is Say. <i>Cochlea</i> &c. Lister.	Canada to Missouri.
210	liv	3	bicar inatus Say. <i>Helix angulatus</i> Rackett.	Canada to Missouri.
211	lv	1	Limneus emarginatus Say.	Canada and Maine.
211	lv	2	catascopium Say.	Penn'a and N. Y.
211	lv	3	decid iosus Say.	N. Y., Pa., and Ind.
213	lvi	1	Pecten Islandicus Müller. <i>Ostrea Islandica</i> Müller. <i>cinnabarina</i> Born. <i>Pealeii</i> Conrad.	Northern coast.
214	lvi	2	dislocatus Say.	South Carolina.
216	lvii	1	Nassa un icincta Say.	South Carolina.
216	lvii	2	vibex Say.	S. Carolina and N. J.
216	lvii	3	acuta Say.	Southern coast.
218	lviii		Ostrea equestris Say.	S. C., Ga., Antilles.
219	lix		Cytherea albaria Say (fossil).	South Carolina.
222	lx	1	Petricola pholadiformis Lam. <i>P. fornicata</i> Say.	Maine to Florida.
222	lx	2	dactylus Sowb. <i>P. flagellata</i> Say.	South Carolina.
222			Cryptostoma Say (n. g.)	
223			perspectivus Say.	
223			maculatus Say.	

[With this number appeared "An attempt to exhibit a Synonymy of the Western North American species of the genera *Unio* and *Alasmodonta*." The list is here given, the paging referring to the reprint.—W. G. B.]

Page. No.		Page. No.	
223	1 <i>Unio niger</i> Raf. <i>U. cuneatus</i> Barnes.	224	16 <i>Unio truncatus</i> Raf. <i>U. undatus</i> B., var. a. <i>elegans</i> Lea.
223	2 <i>cariosus</i> Say. <i>U. viridis</i> Raf. <i>siliquoides</i> B., var. <i>radiatus</i> ? Gmel.	224	17 <i>interruptus</i> Raf. <i>U. brevidens</i> Lea.
223	3 <i>fasciatus</i> Raf. <i>U. carinatus</i> Barnes.	224	18 <i>lineolatus</i> Raf. <i>U. depressus</i> R., y'ng. <i>securis</i> Lea.
223	4 <i>leptodon</i> Raf. <i>U. planus</i> Barnes. <i>purpurescens</i> Sw. <i>tenuissimus</i> Lea.	224	19 <i>ellipsarius</i> Raf. <i>U. ellipticus</i> Barnes. <i>crassus</i> Say.
223	5 <i>fragilis</i> Raf. <i>U. gracilis</i> Barnes.	224	20 <i>fasciolaris</i> Raf. <i>U. crassus</i> Wood? <i>ponderosus</i> Gray. <i>mucronatus</i> Barnes, young. <i>phaseolus</i> Hildr. <i>planulatus</i> Lea.
223	6 <i>nervosus</i> Raf. <i>U. zig-zag</i> Lea. <i>donaciformis</i> Lea.	224	21 <i>verrucosus</i> Raf. <i>U. tuberculatus</i> Bar.
223	7 <i>lævigatus</i> Raf. <i>U. castaneus</i> ? Lea.	224	22 <i>flavus</i> Raf. <i>U. rubiginosus</i> Lea.
223	8 <i>rectus</i> Lam. <i>U. latissimus</i> Raf. <i>pralongus</i> Barnes.	224	23 <i>cyphius</i> Raf. <i>U. Æsopus</i> Green.
223	9 <i>dilatatus</i> Raf. <i>U. nasutus</i> Lam. <i>gibbosus</i> Barnes.	224	24 <i>metanevrus</i> Raf. <i>U. nodosus</i> Barnes.
224	10 <i>cylindricus</i> Say. <i>U. naviformis</i> Lam. <i>solenoides</i> Raf.	224	25 <i>reflexus</i> Raf. <i>U. cornutus</i> Barnes.
224	11 <i>cardium</i> Raf. <i>U. ventricosus</i> Barnes. <i>occidens</i> Lea. <i>suboratus</i> Lea, var. <i>capax</i> Green, var.	224	26 <i>retusus</i> Raf. <i>U. stapes</i> ? Lea, var.
224	12 <i>ovatus</i> Say.	224	27 <i>flexuosus</i> Raf. <i>U. pileus</i> Lea?
224	13 <i>fasciolus</i> Raf. <i>U. multiradiatus</i> Lea.	224	28 <i>nodulatus</i> Raf. <i>U. pustulatus</i> Lea.
224	14 <i>alatus</i> Say. <i>U. megapterus</i> Raf.	224	29 <i>quadrulus</i> Raf. <i>U. rugosus</i> Barnes. <i>lachrymosus</i> Lea. <i>asprerrimus</i> Lea.
224	15 <i>triqueter</i> Raf. <i>U. triangularis</i> Bar. <i>cuneatus</i> Sw. <i>formosus</i> Lea, var.	224	30 <i>nodulosus</i> Wood. <i>U. bullatus</i> Barnes. <i>verrucosus</i> B., var.

Page. No.		Page. No.	
	<i>U. verrucosus albus</i> Hildr. <i>pustulosus</i> Lea.	225 44	Unio latus (Anod.) Raf. <i>U. dehiscens</i> Say. <i>oriens</i> Lea.
224 31	Unio tuberculatus Raf. <i>U. verrucosus</i> Barnes. <i>verrucosus purpureus</i> Hildr. <i>tuberculosus</i> Val.	225 45	heros Say. <i>U. undulatus</i> Say. <i>multiplicatus</i> Lea.
224 32	subrotundus Raf. <i>U. rotundatus?</i> Lam. <i>orbiculatus</i> Hildr. <i>circulus</i> Lea. <i>lens?</i> Lea, y'g var.	225 46	lugubris Say. <i>U. ater</i> Lea. <i>atra</i> Desh.
224 33	obliquatus Raf. <i>U. sulcatus</i> Lea.	225 47	interruptus Say. <i>U. trapezoides</i> Lea.
224 34	triangularis Raf. <i>U. ellipsis</i> Lea.	225 48	apiculatus Say. <i>U. asper</i> Lea.
224 35	scalenius Raf. <i>U. decius?</i> Lea, var.	225 49	lapillus Say. <i>U. fabulis</i> Lea.
224 36	obovalis Raf. <i>U. ebenus</i> Lea.	225 50	monodontus Say. <i>U. soleniformis</i> Lea.
224 37	stegarius Raf. <i>U. irroratus</i> Lea.	225 51	metallicus Say. <i>U. cuprinus</i> Lea.
224 38	mytiloides Raf. <i>U. caridiacea</i> Say of Guérin. <i>pyramidatus</i> Lea.	225 52	nexus Say. <i>U. arcaformis</i> Lea.
225 39	cuneatus Raf. <i>U. patulus</i> Lea.	225 53	politus nob. <i>U. subrotundus</i> Lea (not Raf.)
225 40	gibbosus Raf. <i>U. perplexus.</i>	225 54	cicatricosus Say. <i>U. varicosus</i> Lea.
225 41	costatus Raf. <i>U. peruvianus?</i> Lam. <i>undulatus</i> Barnes.	225 55	plicatus Say. <i>U. variplicatus</i> Lam.
225 42	teres Raf. <i>U. anodontoides</i> Lea.	225 56	parvus Barnes. <i>U. glans?</i> Lea, var.
225 43	Ohioensis (Anod.) Raf. <i>Symph. brevissimus</i> Lea. <i>inflatus?</i> Lea, var.	225 57	undatus Barnes. <i>U. trigonus</i> Lea.
		225 58	subrostratus Say. <i>U. iris</i> Lea.
		225 1	Alasmodonta marginata Say. <i>Unio calceolus</i> Lea.
		225 2	costata Raf. <i>A. rugosa</i> Barnes.
		225 3	complanata Barnes.
P. of repr.	Name.		Locality.
	On page 4 of cover—		
225	Pecten varius Linn.		Northern coast.
225	<i>Helix irrorata</i> Say = <i>H. lactea</i> Müll.		

P. of repr.	Pl.	Fig.	Name.	Locality.
225			<i>Melania acuta</i> Lea = M. semicarinata Say.	
226			<i>Valvata arenifera</i> Lea = Phrygania .	
226			<i>Carocolla heicoides</i> Lea } = Helix palliata (var. a) Say.	
226			<i>Helix denotata</i> Fer. }	
226			<i>Carolinensis</i> Lea = H. appressa (var. a) Say.	
226			<i>Melania tuberculata</i> Lea = M. stygia Say.	
226			<i>elongata</i> Lea = M. elevata Say.	

On page 4 of cover—

235			Helix aspersa is said to be found in North America.	
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Part VII.—No date.

(Published by Mr. CONRAD after Mr. SAY's death.)

226	lxi	1	Donax variabilis Say.	Georgia and Florida.
226	lxi	2	fossor Say.	N. J. and Maryland.
226	lxii		Cyrena Carolinensis Say.	S. C., Fla., Ala., Ga.
			<i>Cyclas Carolinensis</i> Bosc.	
226	lxiii		Venus alveata Conrad (fossil).	Charleston.
			<i>V. paphia</i> Lam. ?	
227	lxiv	1	Tellina brevifrons Say.	South Carolina.
228	lxiv	2	mera Say.	South Carolina.
228	lxv	1	alternata Say.	S. C., Ga., and Fla.
228	lxv	2	polita Say.	S. C. and Florida.
228	lxv	3	tenta Say.	South Carolina.
229	lxiv	3	tenuis Da Costa.	Charleston.
			<i>T. levis</i> Lister.	
229	lxvi		Arca zebra Swainson.	Florida.
230	lxvii		Unio truncatus Raf.	Western waters.
			<i>U. elegans</i> Lea.	
230	lxviii		lineolatus Raf.	Ohio, Alabama, and
			<i>U. depressa</i> Raf.	Bl. Warrior rivers.
			<i>securis</i> Lea.	
231			Venus cingenda Dillw.	
			<i>V. cancellata</i> Lam.	
			<i>elevata</i> Conrad.	
231			Chiton apiculatus Say.	South Carolina.

Say.—10. A Glossary to Say's Conchology. New Harmony, Ind., 1832. (Issued with No. 5 of the Conchology.)

[No descriptions being given, it is not included in Binney's edition, nor is the following.—W. G. B.]

Say.—11. Catalogue of Exotic Shells in my Cabinet, 1833.

Prime.—List of known species of *Pisidium*, with their Synonymy; by TEMPLE PRIME. (From Annals of New York Lyceum of Natural History, vol. vii. March, 1859.)

Page.		Page.	
94	Pisidium abditum Hald. <i>Cyclas minor</i> C. B. Ad. <i>P. minus</i> Stimp. <i>Kurtzi</i> Prime. <i>zonatum</i> Prime. <i>regulare</i> Prime. <i>notatum</i> Prime. <i>amplum</i> Ingalls. <i>resartum</i> Ingalls. <i>rubrum</i> Lewis MS. <i>plenum</i> Lewis.	102	Pisidium Steenbuchi Morch. <i>Cyclas Steenbuchi</i> Möll.
		102	tenellum Gould. <i>P. rubellum</i> Prime.
		102	variabile Prime. <i>P. grande</i> Whitt. MS.
		102	ventricosum Prime.
		102	Virginicum Byt. <i>Tellina Virginica</i> Gmel. <i>pusilla</i> (pars) Dillw.
95	Adamsi Prime. <i>Cyclas nitida</i> Migh.		<i>Cyclas Virginica</i> Fer. <i>dubia</i> Say. <i>dubiosa</i> Say. (<i>Physenoda</i>) <i>æqualis</i> Raf.
97	compressum Prime. <i>Cyclas altilis</i> Anth. <i>P. altile</i> Anth.		<i>P. abruptum</i> Hald. <i>dubium</i> Hald. <i>æquale</i> Raf.
98	equilaterale Prime.		
98	ferrugineum Prime.		
100	Novi-Eboraci Prime.		
101	rotundatum Prime.		

Cooper.—Report upon the Mollusca collected on the Survey: by WM. COOPER. (In Reports on the Natural History, &c., of Minnesota, Nebraska, Washington, and Oregon Territories, made in connection with the Pacific Railroad Survey. New York, 1859.)

[Descriptions of new species only are given, and full notes of locality, &c.—W. G. B.]

Page.		Page.	
369	Murex foliatus Gmelin. <i>M. monodon</i> Esch. <i>Cerastoma monodon</i> Carp. <i>foliatum</i> Carp.	369	Triton Oregonense Redf. <i>Tritonium</i> (<i>Buccinum</i>) <i>cancellatum</i> Midd. <i>Fusus Oregonensis</i> Reeve. <i>cancellatus</i> Reeve. <i>Triton cancellatum</i> (<i>Oregonense</i>) Carp.
369	festivus Hinds. <i>Pteronotus festivus</i> Carp.		

Page.		Page.	
370	Crysodomus antiquus <i>Swainson?</i> Carp. <i>Murex antiquus</i> Linn. <i>Fusus antiquus</i> Lam. <i>Tritonium</i> (<i>Fusus</i>) <i>antiquum</i> Midd. var. <i>Behringiana</i> Midd.	374	Turritella Eschrichtii Midd.
		374	Littorina rudis Gould. <i>L. Barclayana?</i> Hinds.
		374	scutulata Gould.
		374	planaxis Nutt.
		375	Trochus filusus Wood. <i>T. ligatus</i> Gould. <i>modestus</i> Midd.?
370	Middendorffii Cooper. <i>Tritonium</i> (<i>Fusus</i>) <i>decem-</i> <i>costatum</i> Midd., nec Say.	375	schantaricus Midd.
371	sitchensis Carp. [Midd. <i>Tritonium</i> (<i>Fusus</i>) <i>sitchense</i>	375	Haliotis Kamtschatkiana <i>Jonas.</i>
371	Nassa mendica Gould.	375	Fissurella nigropunctata
371	Gibbsii Cooper (n. sp.)	375	aspera Esch. [Sowb. <i>F. eratilia</i> Gould? <i>denseclathrata</i> Reeve?
371	Purpura lactuca Esch. <i>Murex lactuca</i> Esch. <i>ferrugineus</i> Esch. <i>P. septentrionalis</i> Reeve. <i>Muricidia lactuca</i> Carp.	376	Nacella instabilis Carp.?
372	ostrina Gould. [Desh. <i>P. Freycinetii</i> Midd., non <i>decemcostata</i> Midd.	376	Acmaea pelta Carp.?
372	lapillus Linn.	376	persona Carp.?
372	emarginata Desh. <i>P. Conradi</i> Nutt.	376	spectrum Carp.?
372	Monoceros engonatum Con. <i>Purpura</i> (<i>Monoceros</i>) <i>engo-</i> <i>nata</i> Conr. <i>M. unicarinum</i> Reeve.	376	scabra Carp.?
373	lapilloides Conr. <i>M. punctatum</i> Gray.	376	æruginea Carp.?
373	Columbella gausapata Gld.	376	Scurria mitra Carp.?
373	valga Gould.	376	Chiton muscosus.
373	Natica Lewisii Gould. <i>N. herculea</i> Midd.	376	submarmoreus.
373	Potamis pullatus Gould. <i>Cerithiide pullata</i> Carp.	376	tunicatus.
374	Melania plicifera Lea.	376	lignosus.
374	silicula Gould.	376	Helix fidelis Gray. <i>H. Nuttalliana</i> Lea.
374	shortaensis Lea.	376	Townsendiana Lea.
374	Amnicola Nuttalliana Lea. <i>Paludina Nuttalliana</i> Lea.	376	Columbiana Lea. <i>H. labiosa</i> Gould.
374	seminalis Hinds. <i>Paludina seminalis</i> Hinds. <i>Bithinia seminalis</i> Carp.	377	Vancouverensis Lea.
		377	devia Gould. <i>H. Baskervillei</i> Pfr.
		377	tudiculata Binney.
		377	Succinea Nuttalliana Lea.
		377	Limax Columbianus Gould.
		378	Lymnaea umbrosa Gould.
		378	emarginata Say.
		378	jugularis Say.
		378	Physa elongata Say.
		378	heterostrophæ Say.
		378	bullata Gould. MS.
		378	Ancylus caurinus Coop. n. s.?
		378	Planorbis corpulentus Say.

Page.		Page.	
378	Planorbis trivolvus Say.		<i>Tapes diversa</i> Sowb.
378	planulatus Cooper, n. sp.		<i>straminea</i> Carp.
379	Bulla nebulosa Gould.		<i>Saxidomus Petittii</i> Carp.
379	tenella Adams.	383	Saxidomus Nuttalli Conr.
379	Ostrea edulis Linn. [Desh.		<i>Venerupis gigantea</i> Desh.
379	Anomia machroschisma		<i>Venus maxima</i> Philippi.
	<i>Placunanomia macroschisma</i>		<i>S. gigantea</i> Carp.
	Carp.	383	Venus lamellifera Conr.
379	Pecten caurinus Gould.		<i>Venerupis cordieri</i> Desh.
380	ventricosus Sowb.		(var. β .)
	<i>P. tumidus</i> Sowb.		<i>Petricola cordieri</i> Desh.
380	Mytilus edulis Linn.		<i>Rupellaria lamellifera</i> Car.
380	Californianus Conr.	384	Lutraria maxima Midd.
380	Modiola capax Conr.		<i>L. capax</i> Gould.
380	flabellata Gould.	384	Tellina nasuta Conr.
380	Lithodomus.	384	edentula Brod. & Sowb.
381	Arca grandis Brod. & Sowb.	384	bodegensis Hinds. [Conr.
381	Margaritana margaritifera	385	Sanguinolaria Californiana.
	Lea.	385	Solen sicarius Gould.
	<i>Mya margaritifera</i> Linn.	385	Machaera Nuttalli Carp.
	<i>Margar. fluviatilis</i> Schum.		<i>Solen maximus</i> Wood, nec
	<i>Alasmodonta falcata</i> Gld.		Chemn.
381	Anodonta angulata Lea.		<i>Solecurtus Nuttalli</i> Conr.
	<i>A. feminalis</i> Gould.		<i>M. costata</i> Midd.
381	Oregonensis Lea.		<i>maxima</i> Gould.
381	Wahlamatensis Lea.	385	Mya cancellata Conr.
382	Cardium Nuttalli Conr.		<i>Platyodon cancellatum</i> Con.
382	quadragenarium Conr.	385	Sphænia Californica Conr.
382	Lucina Californica Conr.		<i>Cryptomya Californica</i> Con.
382	Cyclas —, n. sp.	386	Mytilimeria Nuttalli Conr.
382	Venus staminea Conr.	386	Pholas penita Conr.
	<i>Venerupis Petittii</i> Desh.		<i>Pholas concamerata</i> Desh.
	<i>Venus rigida</i> Gould.		<i>Parapholas penita</i> Conr.

In Appendix—*Machaera Nuttalli* = *M. patula*.

Binney—Gould.—The Terrestrial Air-breathing Mollusks of the United States, and the adjacent Territories of North America, described and illustrated by AMOS BINNEY: edited by A. A. GOULD. Boston, vols. i, ii, 1851; vol. iii (plates), 1857.

[In vol. i, are general remarks on classification, history, geographical distribution, &c., with Special Anatomy by Dr. J. LEIDY.]

Vol. I.—1851.

Page.	Name.	Locality.
48	<i>Odotropis Raf.</i>	
49	<i>Mesomphix Raf.</i>	
49	<i>Tridopsis Raf.</i>	
49	<i>Xolotrema Raf.</i>	
49	<i>Chimotrema Raf.</i>	
49	<i>Toxotrema Raf.</i>	
49	<i>Stenotrema Raf.</i>	
49	<i>Aplodon Raf.</i>	
49	<i>Mesodon Raf.</i>	
49	<i>Omphalina Raf.</i>	
50	<i>Agatina variegata Raf.</i> *	Louisiana
50	<i>fuscata Raf.</i>	Texas.
51	<i>Philomycus quadrilus Raf.</i>	Hudson river.
52	<i>oxurus Raf.</i>	New York.
52	<i>fuscus Raf.</i>	Ohio.
52	<i>flexuolaris Raf.</i>	Catskill mountains.
52	<i>Eumelus nebulosus Raf.</i>	Ohio and Kentucky.
52	<i>lividus Raf.</i>	Ohio, Indiana, and Ky.
53	<i>Hemiloma ovata Raf.</i>	Lexington.
53	<i>Limax gracilis Raf.</i>	Kentucky.

Page.	Plate.	Fig.	Name.	Page.	Plate.	Fig.	Name.
			Anatomy of—				Anatomy of—
248	i		<i>Limax variegatus.</i>	255	ix	4	<i>Helix fuliginosa.</i>
249	ii	1-4	<i>Arion hortensis.</i>	255	ix	5-6	<i>auriculata.</i>
250	ii	5-6	<i>Limax campestris.</i>	256	ix	7-9	<i>pulchella.</i>
250	ii	7-9	<i>agrestis.</i>	256	x	1-3	<i>exoleta.</i>
250	iii		<i>Tebennophorus Caro-</i>	256	x	4-5	<i>elevata.</i>
			<i>linensis.</i>	256	xi	1-4	<i>Sayii.</i>
251	iv		<i>Vaginulus Floridanus.</i>	257	xi	5-6	<i>hirsuta.</i>
252	v		<i>Bulimus fasciatus.</i>	257	xi	7-9	<i>thyroidus.</i>
252	vi		<i>Helix albolabris.</i>	257	xii	1-3	<i>intertexta.</i>
253	vii	1	<i>cellaria.</i>	257	xii	4-7	<i>ligera.</i>
253	vii	2-5	<i>alternata.</i>	258	xii	9-11	<i>concava.</i>
253	vii	4-7	<i>perspectiva.</i>	258	xiii	1-3	<i>Succinea obliqua.</i>
253	vii	8	<i>palliat.</i>	258	xiv		<i>Glandina truncata.</i>
254	viii	1-6	<i>multilineata.</i>	259	xv	2-4	<i>Pupa incana.</i>
254	viii	7-10	<i>solitaria.</i>	259	xv	5-6	<i>Bulimus decollatus.</i>
255	viii	11	<i>Berlandieriana.</i>	259	xv	7-8	<i>virgulatus.</i>
255	ix	1-3	<i>profunda.</i>	259	xvi		<i>Glandina truncata.</i>

Vol. II.—1851.

[NOTE.—The localities are combined in the quotations from vol. iv.—W. G. B.]

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
			LIMACIDÆ.	66			<i>Succinea Wardiana</i> Lea =
17	lxvii		Vaginulus Floridanus	66			avara.
			<i>Binney.</i>	66			<i>Totteniana</i> Lea =
20	lxiii	1-2	Tebennophorus Caro-	66			ovalis Say. [Gld.
			linensis Bosc.	66			<i>Nuttalliana</i> = ovalis
			<i>Linux Carolinensis</i>	66			<i>inflata</i> = campestris .
			<i>Bosc.</i>	67			<i>retusa</i> = ovalis Gld.
			<i>Carolinianus</i>	67	lxvii b	1	lineata De Kay?
			<i>De Roissy.</i>	67			campestris Say.
			<i>togata</i> Gould.	67			<i>S. inflata</i> Lea. [Gld.
			<i>Philomycus Carolinen-</i>	67			<i>aperta</i> Lea = rotundata
			<i>sis</i> Fer.	67			Nuttalliana Lea.
24	lxiii	3	dorsalis Binn. [Binn.	67			(sp. dist.)
			<i>Philomycus dorsalis</i>	69	lxvii b	3	Oregonensis Lea.
27	lxiv	1	Arion hortensis Fer.				(sp. dist.)
	lxv	2					obliqua Say.
30	lxvi	2	foliolatus Gould.				<i>S. ovalis</i> Say.
33			Limax lineatus De Kay?				<i>campestris</i> Gld. &c.
33			marmoratus De Kay?	72			<i>Totteniana</i> Lea.
33			gracilis Raf.?				Totteniana Lea.
34	lxv	1	variegatus Drop.		lxvii c	4	(sp. dist., A. A. G.)
			<i>L. flavus</i> Binn.	73			avara Say.
36	lxiv	2	agrestis Müll.				<i>S. vermeta</i> Say.
			<i>L. tunicata</i> Gould.	75	lxvii c	1	<i>Wardiana</i> Lea.
41	lxiv	3	campestris Binn.	76	lxvii c	3	luteola Gould.
43	lxvi	1	Columbianus Gould.	77	lxvii c	2	aurea Lea.
				78	lxvii a	3	Oregonensis Lea.
				81	lxvii a	4	ovalis Gould.
				82	lxvii a	2	Nuttalliana Lea.
				96	i		Concordialis Gould.
55	lxvii a	1	Vitrina pellucida Müll. =				Helix major Binney.
58			V. limpida A. A. G.				<i>H. albolabris</i> Fer.
63			Succinea ovalis Say.	99	ii		albolabris Say.
63			campestris Say.	103	iii		multilineata Say.
63			avara Say.	105	vii		Pennsylvanica Green.
63			obliqua Say.	107	iv		clausa Say.
64			avara Say.				<i>H. Mitchelliana</i> Lea.
64			vermeta Say.				<i>Mitchella</i> Kirtl.
64			undulata Say.	109	xliv	1-2	Berlandieriana Mor.
64			campestris Say.	111			<i>H. pachyloma</i> Mke.?
64			ovalis Say.	111	viii		hortensis Müll.
65			obliqua Say.	111			<i>H. subglobosa</i> Binn.
65			avara Say.	115	xlili		Buffoniana Pfr.
65			<i>S. vermeta</i> Say.				<i>H. aspersa</i> (in pl.)
65			undulata Say.	116			aspersa Müll.
65			retusa Lea.	117	xvi		tudiculata Binney.
65			aperta Lea.	119	vi a, vi	1	Nickliniana Lea.
65			Wardiana Lea.	121	vi	2	Californiensis Lea.
65			Totteniana Lea.	122	xiii a	2	abjecta Gould.
66			Nuttalliana Lea.	123	xlvi		polychroa Binney.
66			aurea Lea.		xlvi		<i>H. submeris</i> Mighels.
66			Oregonensis Lea.		xlvi		Pisana Forb.?
66			inflata Lea.	126			

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
126	ix		Helix elevata Say. <i>H. Knoxvilleana</i> Fer. <i>Tennesseeensis</i> Lea.	183	xxvii		Helix tridentata Say.
129	xi		thyroidus Say.	186	xxviii		<i>H. fallax</i> Say.
131	x		exoleta Binn. <i>H. zuleta</i> Binn. <i>albolabris</i> Fer., var.	186	xl		auriculata Say. [Say. <i>Polygyra auriculata</i> <i>avara</i> Say. <i>Stenotrema avara</i> Hart. <i>H. Sagii</i> Wood.
134	xii		dentifera Binn.	189	xl a	4	vultuosa Gould.
136	xiv, xv		palliata Say. <i>H. obstricta</i> Say. <i>denotata</i> Fer. <i>notata</i> Desh. <i>Carolinensis</i> Lea. <i>Carocolla helicoides</i>	191	xlv	1	Texasiana Mor. <i>H. auriculata</i> Binn.
140	xiii		appressa Say. [Lea. <i>H. linguifera</i> Fer. <i>Tridopsis appressa</i>	193	xxxix	2, 4	fatigiata Say. <i>H. Troostiana</i> Pfr. <i>Polygyra plicata</i> Say. <i>fatigiata</i> Say. <i>Dorjeuillana</i> Lea <i>Troostiana</i> Lea.
143	xlv	2-3	inflecta Say. [Beck. <i>H. clausa</i> Fer. <i>Gonostoma clausa</i> Held.	196	xxxviii		septemvolva Say.
145	xxix a	2	<i>Tridopsis inflecta</i> loricata Gld. [Beck.	199	xl a	1	<i>H. planorbula</i> Lam. <i>cerculus</i> Pfr.
147	xli		monodon Rack. <i>H. fraterna</i> Say. <i>convexa</i> Desh. <i>Leaui</i> Ward.	201	xxxix	3	leporina Gould.
149			hirsuta Say.	202	xvii	3	pustula Fer.
150	xlii	3-4	<i>H. stenotrema</i> Fer. <i>fraterna</i> Wood. <i>porcina</i> Say. <i>Tridopsis hirsuta</i> Beck.	204	xxxv		labyrinthica Say.
153	xliv		spinosa Lea. (Car.)	206	xxxvi		ligera Say. <i>H. Rafinesquea</i> Fer. <i>Wardiana</i> Lea.
155	xliv		Edgariana Lea.	208	xxiv		intertexta Binn.
156	xl a	3	germana Gould.	210	xxvi a		solitaria Say. <i>Euryomphala solitaria</i>
157	xl a	2	maxillata Gould.	211	xxii a	1	strigosa Gld. [Beck.
159	xviii		Nuttalliana Lea. <i>H. fidelis</i> Gray.	212	xxv		sportella Gould.
161	xix		Townsendiana Lea.	216	xxvi		alternata Say. <i>H. scabra</i> Lam. <i>Patula alternata</i> Held. <i>Euryomphala alternata</i> Beck.
163	xxi		concava Say. <i>H. planorboides</i> Fer. <i>Circinaria planorboides</i> Beck.	217	xxx	2	Cumberlandiana Lea. <i>Carocolla Cumberlandiana</i> Lea.
166	xx		Vancouverensis Lea. <i>H. concava</i> Binn.	219	xxx	3	striatella Anth.
169	v		Columbiana Lea.	221	xvii a	2	limatula Binn.
170	xiii a		labiosa Gould.	222	xxxi		minuscule Binn. <i>H. minutissima</i> Lea.
172	xlii	2	Mobiliana Lea.	227	xxxiv		fuliginosa Griff.
174	xxix a	4	saxicola Pfr. <i>H. Mauriniana</i> D'Orb.	229	xxxiii		<i>H. lavigata</i> Fer. <i>capillacea</i> Pfr.
175	xvii	1	pulchella Müll. <i>H. minuta</i> Say.	230	xxiv	4	lucubrata Say. <i>H. lavigata</i> Fer.
177	xxii		profunda Say. <i>H. Richardi</i> Fer.	232	xlii	1	inornata Say.
180	xxiii		Sayii Binn. <i>H. diodontu</i> Say.	233	xxii a	2	subplana Binn.
							cellaria Müll. <i>H. glaphyra</i> Say. <i>nitida</i> Dr.
							demissa Binn.
							lucida Dr. <i>H. nitida</i> Müll. <i>hydrophila</i> Ingalls.

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
235	xxix	3	<i>Helix arborea</i> Say.	278	lviii		<i>Bulimus virgulatus</i> Fer.
236	xxix	1	<i>electrina</i> Gould.				<i>Helix (Cochlogena)</i>
238	xxix a	3	<i>Ottonis</i> Pfr.				<i>virgulata</i> Fer.
			<i>H. arborea</i> Pfr., var.				<i>B. Caribæorum</i> Lam.
239	xxix a	1	<i>capsella</i> Gould.				<i>multilincatus</i> Say.
			<i>H. rotula</i> Gould.				<i>Menkei</i> Green.
240	xxix a	2	<i>selenina</i> Gould.				<i>venosus</i> Rve.
242	xix	2	<i>indentata</i> Say.	280	1	1	<i>decollatus</i> Linn.
243	xvii	4	<i>chersina</i> Say.				<i>Helix decollata</i> Linn.
245			<i>H. egena</i> .				<i>B. mutilatus</i> Say.
245	xxii a	3	<i>egena</i> Say.				<i>mutilatus</i> Jay.
247	xxx	4	<i>interna</i> Say.	283	lii	4	<i>lubricus</i> Müll.
			<i>H. pomum-Adami</i> Gr.				<i>Helix lubrica</i> Müll.
250	xxxvii	3-4	<i>gularis</i> Say.				<i>Achatina lubrica</i> Mke.
253	xxxvii	1	<i>suppressa</i> Say.				<i>Zua lubrica</i> Leach.
254	xxxvii	2	<i>lasmodon</i> Phillips.				<i>Cionella lubrica</i> Jeffr.
256	xxx	1	<i>perspectiva</i> Say.				<i>Columna lubrica</i> lan.
			<i>H. parvula</i> Desh.				<i>Styloides lubricus</i> Fitz.
			<i>Euryomphala perspec-</i>	285	liii	4	<i>subula</i> Pfr.
			<i>tiva</i> Beck. [Held.				<i>Achatina subula</i> Pfr.
			<i>Patula perspectiva</i>				<i>B. octonoides</i> Orb.
258	xlvi	3	<i>multidentata</i> Binn.				<i>procerus</i> Adams.
261	xlvi	1	<i>lineata</i> Say. [Beck.	286	liii	1	<i>exiguus</i> Say.
			<i>Euryomphala lineata</i>				<i>Pupa exigua</i> Say =
266	lv		<i>Bulimus fasciatus</i> Müll.	288			<i>Carychium</i> .
	lvi		<i>Buccinum fasciatum</i>	288	lii	1	<i>fallax</i> Gould. [Say.
			Müll.				<i>Cyclostoma marginata</i>
	lvii		<i>Bulla virginea</i> Linn.				<i>Pupa fallax</i> Gould.
			<i>fasciata</i> Chemn.				<i>albilabris</i> Ad.
			<i>Bulim. vexillum</i> Brug.	290	lii	3	<i>harpa</i> Say.
			<i>Helix vexillum</i> Fer.				<i>Helix harpa</i> Say.
			<i>Achatina vexillum</i> Lk.				<i>Pupa costulata</i> Migh.
			<i>crenata</i> Sw.	293	liii	3	<i>Achatina gracillima</i>
			<i>pallida</i> Sw.				Pfr.
			<i>fasciata</i> Sw.				<i>Bulim. gracillimus</i> Pfr.
			<i>solida</i> Say.				<i>A. striato-costata</i> Orb.
271	lii		<i>zebra</i> Müll.	294	liii	2	<i>pellucida</i> Pfr.
			<i>Buccinum zebra</i> Müll.				<i>Tornatella Cubensis</i>
			<i>Bulla zebra</i> Gmel.				Pfr.
			<i>Zebra Mülleri</i> Chem.	298	lxii a		<i>Glandina bullata</i> Gld.
			<i>Bulimus undatus</i> Brug.				<i>G. truncata</i> Gould.
			<i>Helix undata</i> Fer.	299	lxii	1	<i>Vanuxemensis</i> Lea.
			<i>Bulimus melanocheilus</i>				<i>Achatina Vanuxemen-</i>
			Val.				<i>sis</i> Rve.
			<i>Achat. pulchella</i> Spix.	301	lix		<i>truncata</i> Say.
			<i>Bulimus princeps</i> Brod.		lx		<i>Bulla truncata</i> Gmel.
			<i>Achat. flammigera</i> S.		lxi	2	<i>Buccinum striatum</i> Ch.
274	l	2	<i>serperastrus</i> Say.				<i>Bulimus striatus</i> Brug.
			<i>B. nitelinus</i> Rv.				<i>Cochlicopa rosea</i> Fer.
			<i>ilacinus</i> Rv.				<i>Achatina rosea</i> Desh.
276	li		<i>dealbatus</i> Say.				<i>truncata</i> Orb.
	li a		<i>Helix dealbata</i> Say.	306	lxix	1	<i>Polyphemus glans</i> Say.
	li b		<i>Zebrina dealbata</i> Held.				<i>Cylindrella pontifica</i>
			<i>B. alternatus</i> Say.				Gould.
278			<i>Schiedeanus</i> Pfr.				<i>Pupa pontifica</i> Gould.
278			<i>lactarius</i> Mke.				

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
309	lxix	2	Cylindrella lactaria Gd. <i>Pupa</i> (<i>Siphonostoma</i>) <i>lactaria</i> Gould.	337	lxxi	1	Vertigo milium Gould (cut p. 338). <i>Pupa milium</i> Gould.
310	lxix	3	jejuna Gould.	339	lxxii	4	Pupa corticaria Say (cut p. 340). [Say.
316	lxviii		Pupa maritima Pfr. <i>P. incana</i> Binn.				<i>Odostomia corticaria</i>
318							rupicola Say (cut p.
319	lii	2	modica Gould.	341	lxx	1	342). <i>P. procera</i> Gould.
320	lxx	4	armifera Say (cut p. 322.) [Mich.				simplex Gould. [Say.
			<i>P. armigera</i> Pot. &	343	lxxii	3	Cyclostoma dentatum
323	lxx	3	badia Ad. (cut, p. 324).	348	lxxii		Helicina orbiculata S.
324	lxx	2	contracta Say (cut p.	352	lxxiii		<i>Oligyra orbiculata</i> S.
327	lxxi	3	decora Gould. [326).	lxxiv	3		<i>Helicina rubella</i> Gr'n.
328	lxii	1	pentodon Say (cut p. 330). <i>Vertigo pentodon</i> Say.				? <i>castanea</i> Sowb.
			<i>P. curvidens</i> Gould.	252			<i>minuta</i> Sowb.
			<i>Tuppaniana</i> Ad.	253			<i>Ambeliana</i>
				253			De Roissy.
331	lxxii	2	variolosa Gould.	254			<i>tropica</i> lan.
332	lxxi	2	Vertigo Gouldii Binn. (cut p. 333).	354	lxxiv	4	chrysochella Binn.
			<i>Pupa Gouldii</i> Binn.	356	lxxiv	2	occulta Say.
334	lxxi	4	ovata Say (cut p. 336). <i>Pupa ovata</i> Gould. <i>modesta</i> Gould.	358			<i>Oligyra occulta</i> Say.
							Helix divesta Gould.
							<i>H. abjecta</i> Gould.
							<i>dejecta</i> Gould.

[Wood-cuts of the lingual ribbon of many of the species are also given.—W. G. B.]

Vol. III, Plates.—1857.

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
9	xi a		Helix bucculenta Gld.	26			Helix Nickliniana Lea.
11			devia Gould. <i>H. Baskervillei</i> Pfr.	26			<i>H. Californiensis</i> Rve.
12			ramentosa Gould.				Californiensis Lea.
12			æruginea Gould.	27			<i>H. vincta</i> Val.
13			infumata Gould.				divesta Gould.
13			<i>Oregonensis</i> Lea =	31			<i>H. abjecta</i> .
14			Dupetithouarsi Desh.				lucubrata Say.
14			areolata Sowb.	31			<i>H. fuliginosa</i> Rve.
15			Pandoræ Forbes.				septemvolva Say (in-
			<i>H. Damascenus</i> Gld.	33	xliv	2	ternal lamina).
16			exigua Stimpson.	33			? triodonta lan.
17			Hindsii Pfr.				polychroa Binn.
17			Hopetonensis Shuttl.	34			<i>H. rhodocheila</i> in pl.
			<i>H. tridentata</i> Binn.,				selenina Gould.
18			Rugeli Shuttl. [var.				<i>H. vortex</i> Pfr.
19			mordax Shuttl.	34			<i>tenuistriata</i> Bin.
19			Zonites placentula				Berlandieriana Mor.
			Shuttl.	40	lxxii	1	<i>H. albolineata</i> in pl.
20			macilenta Shuttl.				Pupa Tappaniana Ad.
20			Helix uvulifera Shuttl.				(right hand fig.)
21			barbigera Redf.				curvidens Gould
23			Ellioti Redf.				(left hand fig.)

W. G. Binney.—A Supplement to the same, constituting vol. iv: by W. G. BINNEY. (From the Boston Journal of Natural History, vol. vii, 1859.)¹

SECTION I.—THE SPECIES OF THE PACIFIC COAST.

Page.	Plate.	Fig.	Name.	Locality.
6			<i>Arion foliolatus</i> Gould.	Puget sound.
6			<i>Limax Columbianus</i> Gould.	Pisqually & Puget s.
6			<i>Succinea Nuttalliana</i> Lea.	Lewis river, Oregon.
6			<i>Oregonensis</i> Lea.	Oregon.
6	lxxix	14	<i>rusticana</i> Gould.	Oregon.
7			<i>cingulata</i> Forbes (e. l.)	Mazatlan.
7			<i>aperta</i> Lea (e. l.)	.
7			<i>Helix tudiculata</i> Binney.	San Diego.
7			<i>Nickliniana</i> Lea.	California.
			<i>H. Californiensis</i> Chemn., &c.	
			<i>arboretorum</i> Val., &c.	
			<i>nemorivaga</i> Val.	
8	vi	1	<i>intercisa</i> W. G. Binney (mid. fig.)	Oregon.
			<i>H. Nickliniana</i> (var.) Binney.	
9	vi	1	<i>redimita</i> W. G. Binney.	California.
			<i>H. Nickliniana</i> (var.) Binney.	
11	lxxvi	5	<i>anachoreta</i> W. G. Binney.	California.
12			<i>reticulata</i> Pfr.	California.
12			<i>exarata</i> Pfr.	California.
13			<i>Californiensis</i> Pfr.	California.
			<i>H. vineta</i> Val.	
13			<i>ramentosa</i> Gould.	California.
14			<i>loricata</i> Gould.	California.
			<i>H. Lecontii</i> Lea.	
14			<i>germana</i> Gould.	Oregon.
14			<i>fidelis</i> Gray.	Oregon.
			<i>H. Nuttalliana</i> Lea.	
15	lxxix	2	<i>infumata</i> Gould.	San Francisco.
15			<i>Townsendiana</i> Lea.	Oregon.
15	lxxvi	4	<i>arrosa</i> Gould.	San Francisco.
			<i>H. aruginosa</i> Gould.	
15	lxxvi	9	<i>Dupetithouarsi</i> Desh.	California & Oregon.
			<i>H. Oregonensis</i> Lea.	
15	lxxix	21	<i>Mormonum</i> Pfr.	Mormon island, Cal.
16			<i>Columbiana</i> Lea.	Oregon.
			<i>H. labiosa</i> Gould.	

¹ Extra limital and spurious species are respectively designated by the letters e. l. and sp. being affixed to their names.

Page.	Plate.	Fig.	Name.	Locality.
17	lxxix	13	Helix devia Gould.	Oregon.
			<i>H. Baskervillei</i> Pfr.	
17	lxxvi	12	Kelletti Forbes.	San Diego.
18	lxxvi	8	Pandoræ Forbes.	Santa Barbara.
			<i>H. damascenus</i> Gould.	
18	lxxvi	10	levis Pfr.	Columbia river.
19	lxxvi	11, 3	areolata Sowerby.	Oregon & California.
19			Vancouverensis Lea.	Columbia river.
			<i>H. vellicata</i> Forbes.	
19			sportella Gould.	San Diego, &c.
20	lxxvi	7	Newberryana W. G. B.	San Diego, &c.
22	lxxvi	6	cultellata Thompson.	Contra Costa co., Cal.
23			strigosa Gould.	Oregon, N. Mex., &c.
23			Sagraiana Orb. (sp.)	
23	lxxvi	1	acutedenta W. G. B. (e. l.)	
23	lxxvi	2	Loisa W. G. B. (e. l.)	
24			aspersa Müll. (e. l.)	
24			Mazatlanica Pfr. (e. l.)	
24	lxxix	15	Bulimus Californicus Rve.	California.
24	lxxix	12	excelsus Gould.	California.
			<i>B. elatus</i> Gould.	
25			chordatus Pfr. (e. l.)	
25			Humboldti Rve. (e. l.)	
25			Mexicanus Lam. (e. l.)	
25			zebra Müll. (e. l.)	
25			Ziegleri Pfr. (e. l.)	
25			vegetus Gould (e. l.)	
25			vesicalis Gould (e. l.)	
			<i>B. sufflatus</i> Gould.	
25			Laurentii Sowerby (e. l.)	
26	lxxix	19	Achatina Californica Pfr.	Monterey, Cal.
26			Glandina Albersi Pfr. (e. l.)	
26			turris Pfr. (e. l.)	
26	lxxix	8	Melampus olivaceus Carp.	Mazatlan.
28	lxxix	20	Truncatella Californica Pfr.	San Diego.
		22	<i>T. gracilentia</i> Gould.	

SECTION II.—THE SPECIES EAST OF THE ROCKY MOUNTAINS.

Family **Limacea**.

29	Vaginulus Floridanus Binney.	Charlotte harbor.
30	flexuolaris (sp.)	
30	fuscus (sp.)	
30	oxyurus (sp.)	
30	quadrilus (sp.)	

Page.	Plate.	Fig.	Name.	Locality.
30			Tebennophorus Carolinensis Binney.	E'rn, Midd., S'rn and W'rn States.
			<i>Limax Carolinensis</i> Bosc.	
			<i>marmoratus</i> De Kay.	
31			dorsalis Binney.	Mass. and Vermont.
			<i>Philomycus dorsalis</i> Binney.	
			<i>Limax dorsalis</i> De Kay.	
31			bilineatus Cart. (sp.)	
31			Arion hortensis Dr.	Boston, &c.
31			empiricorum Fer. (sp.)	
31			foliolatus Gould (sp.)	
31			Limax variegatus Dr.	Boston, &c.
			<i>L. flavus</i> De Kay.	
31			agrestis Müll.	Boston, &c.
32			campestris Binney.	Massachusetts, &c.
32			Columbianus Gould (sp.)	
32			fuliginosus Gould (sp.)	
32			olivaceus Gould (sp.)	
32			lineatus De Kay (sp.)	
32			gracilis Raf. (sp.)	
32			Eumelus lividus Raf. (sp.)	
32			nebulosus Raf. (sp.)	
32			Deroceras gracilis Raf. (sp.)	
32			Philomycus flexuolaris Raf. (sp.)	
32			fuscus Raf. (sp.)	
32			oxyurus Raf. (sp.)	
32			quadrilus Raf. (sp.)	
32			Testacina Raf. (sp.)	
32			Urcinella Raf. (sp.)	
32			Zilotea Raf. (sp.)	
Family Helicea.				
32	lxxix	9	Vitrina Angelicæ Bk.	Greenland.
			<i>Helix pellucida</i> Fabr.	
			<i>domestica</i> Ström.	
33			limpida Gould.	From Maine & Lake Superior north.
			<i>V. pellucida</i> De Kay.	
			<i>Americana</i> Pfr.	
34			Succinea campestris Say.	South Carolina, &c.
34	lxxx	11	inflata Lea.	Georgia.
			<i>S. campestris</i> (var.) Binney.	
35			obliqua Say.	Canada to Arkansas.
			<i>S. lineata</i> De Kay.	
35			Totteniana Lea.	Rhode Island, &c.
			<i>S. obliqua</i> (var.) Binney.	

Page.	Plate.	Fig.	Name.	Locality.
35			Succinea avara Say. <i>S. vermeta</i> Say? <i>Wardiana</i> Lea.	Whole country.
37			aurea Lea. <i>S. ovalis</i> (var.) Anthony.	New York and Ohio.
37	lxxix	7	retusa Lea. <i>S. campestris</i> Anthony.	Ohio.
38	lxxx	4	Grœnlandica Beck.	Greenland.
38	lxxx	5	lineata W. G. Binney.	Nebraska Territory.
40	lxxix	1	Haydeni W. G. Binney.	Nebraska Territory.
41			luteola Gould. <i>S. Texasiana</i> Pfr.	Texas.
41			Concordialis Gould. <i>S. munita</i> Binney.	L. Concordia, Tex.
41	lxxx	12	effusa Shuttl.	East Florida.
42	lxxix	18	Salleana Pfr.	New Orleans.
42			putris Linn. (sp.)	
42			amphibia Dr. (sp.)	
43			Helix major Binney. <i>H. albolabris</i> Pf.	Tenn. to Florida.
43			albolabris Say. <i>H. rufa</i> De Kay.	S. Car. to Arkansas, north to Canada.
45			multilineata Say.	N'n, Mid., W'rn St's, west of Aleg. mts.
45			Pennsylvanica Green. <i>H. Mitchelliana</i> Desh.	Middle States.
46			clausa Say. <i>H. Pennsylvanica</i> Pfr. <i>Mitchelliana</i> Chemn.	W'rn & S'rn States.
47	iv		Mitchelliana Lea. <i>H. clausa</i> pars Binney.	Ohio.
49	lxxvii	22	Berlandieriana Mor. <i>H. pachyloma</i> Mke. <i>virginalis</i> Pfr.	Southw'rn States and Mexico.
50	lxxvii	20	griseola Pfr. <i>H. cicercula</i> Fer. <i>splendidula</i> Anton. <i>albocincta</i> Binney. <i>albozonata</i> Binney. <i>albolineata</i> Gould. <i>Brandybœna pisum</i> Beck.	Texas, Mexico, and Central America.
51			hortensis Müll. <i>H. subglobosa</i> Binney. <i>nemoralis</i> Stimp.	Greenland, & Conn. ? introduced on isl's of N. Atlan. coast.
51	lxxvii	4	aspera Müll.	

Page.	Plate.	Fig.	Name.	Locality.
51			<i>Helix divesta</i> Gould.	
			<i>H. abjecta</i> Gould.	
51	lxxviii	22	<i>varians</i> Mke.	Florida.
			<i>H. carnicolor</i> Pfr.	
			<i>pisana</i> Cheinn.	
			<i>submeris</i> Mighels.	
			<i>rhodocheila</i> Binney.	
			<i>polychroa</i> Binney.	
52			<i>elevata</i> Say.	N'r'n & Middle St's.
			<i>H. Tennesseensis</i> Lea.	
53	lxxvii	10	<i>Clarkii</i> Lea.	North Carolina.
53			<i>thyroides</i> Say.	Canada to Texas.
			<i>Anchistoma thyroides</i> Ad., Gen.	
54			<i>bucculenta</i> Gould.	
			<i>H. thyroides</i> ♂ Pfr.	
54			<i>exoleta</i> Binney.	Georgia to Texas.
			<i>H. zaleta</i> Binney.	[Ga., &c.
			<i>albolabris</i> (var.) Pfr., &c.	Midd. & N'r'n States,
55			<i>dentifera</i> Binney.	N. Y., Ohio, Vt., Va.,
55	lxxvii	3	<i>Roemeri</i> Pfr.	Texas. [Me., Pa.
			<i>H.entifera</i> Pfr.	
56			<i>palliat</i> a Say.	Whole country?
			<i>H. denotata</i> Fer.	
57			<i>obstricta</i> Say.	Ohio.
			<i>H. palliat</i> a (var.) Binney.	
			<i>denotata</i> (var.) Fer.	
			<i>appressa</i> (var.) Desh.	
			<i>Carocolla helicoides</i> Lea.	
59			<i>appressa</i> Say.	W'r'n, Southw'r'n, &
			<i>H. linguifera</i> Fer.	Southern States.
59			<i>inflecta</i> Say.	Canada to Texas.
			<i>H. clausa</i> Raf. (<i>Xolotrema</i> .)	
60	lxxviii	15	<i>Rugeli</i> Shuttl.	Tennessee.
60			<i>monodon</i> Rack.	Canada to Texas.
			<i>H. fraterna</i> Say.	
			<i>Leaii</i> Ward.	
			<i>hirsuta</i> Fer.	
			<i>convexa</i> Pfr.	
61			<i>stenotrema</i> Fer.	S'r'n & W'r'n States.
			<i>H. hirsuta</i> (var.) Binney.	
62			<i>hirsuta</i> Say.	Canada to Texas.
			<i>H. sinuata</i> γ Gmelin.	
			<i>isognomostomus</i> γ Gmelin.	
			<i>convexa</i> Raf. (<i>Stenostoma</i> .)	
			<i>porcina</i> Say?	
			<i>Tridopsis hirsuta</i> Woodw.	

Page.	Plate.	Fig.	Name.	Locality.
63	lxxvii	2	Helix barbigera Redf.	Georgia.
63	lxxviii	7, 9	Edwardsi Bland.	Virginia.
65			spinosa Lea.	Ala., Ga., Tenn.
65			Edgariana Lea.	Tenn., Ark., Ala.
65			maxillata Gould.	Tennessee, Georgia.
65			concava Say.	Whole country.
			<i>H. planorboides</i> Raf.	
			<i>dissidens</i> Desh.	
67			jejuna Say.	Ala., Ga., Florida.
			<i>H. Mobiliana</i> Lea, Binney.	
68			incrustedata Poey.	Texas.
			<i>H. saricola</i> Gould.	
69			pulchella Müll.	Whole country?
			<i>H. costata</i> Müll.	
			<i>minuta</i> Say.	
70			profunda Say.	Middle States, &c.
			<i>H. Richardi</i> Fer.	
70			Sayii Binney.	Illinois to Me. & Pa.
			<i>H. diodonta</i> Say.	
70			tridentata Say.	All the States.
			<i>Tridopsis lunula</i> Raf.	
71			fallax Say.	All the States?
			<i>H. tridentata</i> (var.) Binney.	
72	lxxvii	16	Hopetonensis Shuttl.	Florida and Georgia.
72	lxxvii	14	ventrosula Pfr.	Texas. [Natchez.
73			auriculata Say (Polyg.)	Fla., S. C., Ga., and
74			avara Say (Polyg.)	
			<i>H. auriculata</i> pars. Binney.	
			<i>Sayii</i> Wood.	
75			uvulifera Shuttl. (fig.)	Florida.
			<i>H. florulifera</i> Rve.	
			<i>auriculata</i> min. Fer.	
75			vultuosa Gould.	Texas.
76	lxxviii	1, 3, 4	Ariadnæ Pfr.	Texas?
			<i>H. Couchiana</i> Lea.	
77	lxxviii	19	hippocrepis Pfr.	Texas.
79			Texasiana Mor.	Texas.
			<i>H. triodonta</i> Fer.	
			<i>auriculata</i> Binney, olim.	
			<i>Tamulipasensis</i> Lea.	
80	lxxviii	24	Mooreana W. G. Binney.	Texas.
81	lxxviii	21	tholus W. G. Binney.	Texas.
82			fatigiata Say.	Tennessee.
			<i>H. fatigata</i> Binney, pars.	
			<i>auriculata</i> Binney olim.	

Page.	Plate.	Fig.	Name.	Locality.
			<i>H. Texasiana</i> (var. β) Desh.	
			<i>Dorfeuilliana</i> Desh.	
			<i>Helicina fastigiata</i> Desh.	
84	lxxviii	13	Helix <i>Hazardi</i> Bland.	Tenn. & Kentucky.
			<i>Polygyra plicata</i> Say.	
			<i>H. fatigiata</i> Binney, pars.	
			<i>Texasiana</i> Pfr., &c.	
			<i>Dorfeuilliana</i> Desh.	
			<i>Troostiana</i> W. G. Binney.	
			<i>Helicina plicata</i> De Kay.	
86	lxxviii	2, 14	Dorfeuilliana Lea.	Ohio.
			<i>Polygyra Dorfeuilliana</i> Lea.	
			<i>H. fatigiata</i> Binney, pars.	
88	lxxviii	11	Troostiana Lea (Pol.)	Tennessee.
			<i>H. fatigiata</i> Binney, pars.	
			<i>plicata</i> Shuttl., &c.	
90	lxxvii	23	cereolus Muhlf.	Florida.
			<i>Polygyra septemvolva</i> Say.	
			<i>H. planorbula</i> Lam., &c.	
			<i>septemvolva</i> Binney.	
91	lxxviii	23	microdonta Desh.	Florida and Texas.
			<i>H. plana</i> Dunk.	
92	lxxviii	17	volvoxis Pfr.	Georgia and Florida.
			<i>Polygyra septemvolva</i> Beck.	
92	lxxviii	5, 6, 8	Hindsii Pfr.	Texas.
92			leporina Gould.	Miss., Ark., Ga., Ill.,
			<i>H. pustula</i> β Pfr.	and Ind.
93			pustuloides Bland.	Georgia.
			<i>H. pustula</i> Binney in pl. non Fer.	
94	lxxvii	12	pustula Fer.	Ga., Fla., & Texas.
95			labyrinthica Say.	Whole country.
95			ligera Say.	W'm St's, Ky., Pa.,
			<i>H. Rafinesquea</i> Fer.?	and Ark.
			<i>Wardiana</i> Lea.	
96			intertexta Binney.	W'm & Mid. St's, &c.
96			solitaria Say.	W'm, S. W'm, &c.
97	lxxvii	11	Cooperi W. G. Binney.	Nebraska.
98			alternata Say.	Whole country.
			<i>H. scabra</i> Lam.	
			<i>inflecta</i> Pfr.	
			<i>strongylodes</i> Pfr.	
99			mordax Shuttl.	North Carolina.
99			Cumberlandiana Lea.	West Tennessee.
			<i>Carocolla Cumberlandiana</i> Lea.	

Page.	Plate.	Fig.	Name.	Locality.
99			Helix striatella <i>Anthony.</i>	E'rn, W'rn, and N'rn States, &c.
			<i>H. ruderata</i> Adams.	
100			<i>liniatula</i> <i>Binney.</i>	Northern States.
100	lxxvii	6, 7	<i>minutissima</i> <i>Lea.</i>	Ohio and N. York.
			<i>H. minuscula</i> teste <i>Binney.</i>	
101	lxxix	4, 5	<i>milium</i> <i>Morse.</i>	Maine.
102	lxxvii	19	<i>exigua</i> <i>Stimp.</i>	Mass. and Canada.
			<i>H. annulata</i> <i>Case.</i>	
			<i>striatella</i> jun. <i>Gould.</i>	
102			<i>minuscula</i> <i>Binney.</i>	Whole country.
			<i>H. minutalis</i> <i>Mor.</i>	
			<i>apex</i> Adams.	
			<i>Lavelleana</i> <i>Orb.</i> in text.	
			<i>Mauriniana</i> <i>Orb.</i> in tab.	
103	lxxvii	9	<i>asteriscus</i> <i>Morse.</i>	Maine.
			<i>H. minutissima</i> <i>Gould.</i>	
104	lxxx	14	<i>kopnodes</i> <i>W. G. Binney.</i>	Alabama.
105			<i>fuliginosa</i> <i>Binney.</i>	Whole country?
			<i>H. lævigata</i> <i>Fer.</i> teste <i>A. B.</i> non <i>W. G. B.</i>	
			<i>capillacea</i> <i>Pfr.</i>	
			<i>Omphalina cuprea</i> <i>Raf.?</i>	
106	lxxx	2	<i>friabilis</i> <i>W. G. Binney.</i>	Ind., Ill., Ala., Tex.
107			<i>caduca</i> <i>Pfr.</i>	Texas.
108			<i>lævigata</i> <i>Pfr.</i>	W'rn & S'rn States.
			<i>H. lucubrata</i> <i>Binney</i> , non <i>Say.</i>	
			<i>fuliginosa</i> <i>Binney</i> , olim.	
			<i>inornata</i> <i>Rve.</i>	
109			<i>inornata</i> <i>Say.</i>	N'rn, N. E'rn, W'rn, and Mid. St's, &c.
			<i>H. glaphyra</i> <i>Pfr.</i>	
110			<i>subplana</i> <i>Binney.</i>	Tennessee.
110	lxxvii	15	<i>sculptilis</i> <i>Bland.</i>	North Carolina.
111			<i>cellaria</i> <i>Müll.</i>	N. E'rn & Mid. St's.
			<i>H. glaphyra</i> <i>Say.</i>	
115	lxxix	10	<i>bulbina</i> <i>Desh.</i>	B'ks of O., Mo., Miss.
116			<i>demissa</i> <i>Binney.</i>	Pennsylvania.
116			<i>lucida</i> <i>Dr.</i>	New York and Ohio.
			<i>H. nitida</i> <i>Müll.</i>	
			<i>hydrophila</i> <i>Ing.</i>	
116			<i>arborea</i> <i>Say.</i>	U. S. and Canada.
116	lxxvii	18	<i>Ellioti</i> <i>Redf.</i>	Georgia and N. C.
117			<i>electrina</i> <i>Gould.</i>	E'rn, Mid., W'rn, &
117			<i>Ottonis</i> <i>Pfr.</i>	Florida. [S'rn St's.
117			<i>Steenstrupii</i> <i>Morch.</i>	Greenland.
			<i>Helicella Steenstrupii</i> <i>Morch.</i>	
			<i>H. nitida</i> <i>Fabr.</i>	
			<i>alliaris</i> <i>Forb.</i>	

Page.	Plate.	Fig.	Name.	Locality.
117			Helix capsella Gould.	Tennessee.
			<i>H. rotula</i> Gould.	
			<i>placentula</i> Shuttl.	
117			vortex Pfr.	Georgia and Florida.
			<i>H. selenina</i> Gould in vol. ii.	
118			tenuistriata Binney.	Tennessee.
			<i>H. selenina</i> Gould in vol. iii.	
119			indentata Say.	Whole country.
119			chersina Say.	Whole country.
			<i>H. fulva</i> teste Mighels, &c.	
119			<i>egena</i> Say = chersina teste Binn.	Pennsylvania.
120	lxxvii	17	Fabricii Beck.	Greenland.
			<i>H. nitida</i> Fabr.	
			<i>Conulus Fabricii</i> Morch.	
			<i>H. Hammonis</i> Ström. ?	
121			Gundlachi Pfr.	Florida.
			<i>H. pusilla</i> Pfr.	
			<i>egena</i> Gould, non Say.	
121			interna Say.	Western States, &c.
121			gularis Say.	Tennessee, Alabama,
			<i>H. bicostata</i> Pfr.	Ohio, and Penn.
			<i>Rafinesquea</i> Fer. ?	
122			suppressa Say.	Middle States, Ala.,
			<i>H. gularis</i> (var.) Pfr.	and Florida.
122			lasmodon Phillips.	Alabama and Tenn.
			<i>H. macilenta</i> Shuttl. in vol. iii.	
122			perspectiva Say.	N ^{rn} , W ^{rn} , S ^{rn} , and
			<i>H. patula</i> Desh.	Middle States, &c.
123			multidentata Binney.	Vt., Ohio, Me., N. Y.
123			lineata Say.	Whole country.
123			arbustorum Linn. (sp.)	
124			Bonplandi Lam. (sp.)	
124			<i>corpuloides</i> Mont. = Delphinoidea .	
124			<i>harpa</i> Say = Bulimus .	
124			<i>dealbata</i> Say = Bulimus .	
124			depicta Grat. (sp.)	
124			<i>domestica</i> Ström. = Vitrina Angelicæ ?	
124			hieroglyphica Beck. (sp.)	
124			hispidia Linn. (sp.)	Canada ?
124			<i>irrorata</i> Say = lactea Müll.	Pennsylvania ?
125			nemoralis Linn. (sp.)	
125			<i>pellucida</i> Fabr. = Vitrina Angelicæ .	
125			pisana Müll. (sp.)	
125			<i>subcylindrica</i> Pult. = Truncatella .	
125			<i>Trumbulli</i> Linsl. = { Margarita arctica ?	
			{ Skenea serpuloides teste Gl.	

Page.	Plate.	Fig.	Name.	Locality.
125			Helix virgata Mont. (sp.)	
125	lxxvii	13	Bulimus zebra Müll.	Florida, Louisiana?
	lxxviii	12	<i>Agatina fuscata</i> Raf.	
126			serperastrus Say.	Texas.
			<i>B. nitelinus</i> Rve.	
			<i>lilacinus</i> Rve.	
			<i>Liebmanni</i> Pf.	
			<i>Ziebmanni</i> ♂ Rve.	
			<i>nitelinus</i> γ Rve.	
126	lxxx	3, 1?	alternatus Say.	Louisiana, Texas.
			<i>B. lactarius</i> Pfr.	
			<i>dealbatus</i> pars Binney.	
128			Mariæ Albers.	Texas.
128			Binneyanus Pfr.	Texas.
			<i>B. dealbatus</i> (var.) Binney.	
			<i>Schiedeanus</i> Gould, vol. iii.	
129	lxxx	8, 15	Schiedeanus Pfr.	Texas.
129	lxxx	13	patriarcha W. G. Binney.	Texas.
130	lxxx	6, 7	dealbatus Say.	Southwestern St's.
			<i>Helix dealbata</i> Say.	
			<i>B. confinis</i> Rve.	
			<i>liquabilis</i> Rve.	
132			multilineatus Say.	Florida.
			<i>B. virgulatus</i> Binn. vol. iii, excl., syn. non Fer.	
132	lxxx	10	Dormani W. G. Binney.	St. Augustine.
134	lxxix	3	Floridanus Pfr.	Florida.
134			decollatus Linn.	Charleston, S. C.
			<i>B. mutilatus</i> Say.	
134			subula Pfr.	Florida.
			<i>Achatina subula</i> Pfr.	
			<i>B. hortensis</i> Adams.	
134			gracillimus Pfr.	East Florida.
			<i>Achatina gracillima</i> Pfr.	
135			Gossei Pfr.	Texas.
135			harpa Say.	N. W. Terr., Maine.
			<i>Helix harpa</i> Say.	
136			marginatus Say.	Whole country?
			<i>Cyclostoma marginata</i> Say.	
			<i>Pupa fallax</i> Say.	
			<i>albilabris</i> Adams.	
			<i>Parraiana</i> Orb.	
			<i>placida</i> Say?	
			<i>B. fallax</i> Gould.	
137			acicula Müll. }	Introduced.
137			octona Brug. }	

Page.	Plate.	Fig.	Name.	Locality.
137			<i>Bulimus exiguus</i> Binney = <i>Carychium exiguum</i> .	
137			<i>fasciatus</i> Binney = <i>Achatina</i> .	
137			<i>Gossei</i> Pfr. } = <i>Macr. pontificus</i> ?	
137			<i>Kieneri</i> Pfr. }	
137			<i>lubricus</i> Adams = <i>Achatina</i> .	
137			<i>obscurus</i> vid. <i>Pupa placida</i> .	
137			<i>striatus</i> Brug. = <i>Glandina truncata</i> .	
137			<i>vevillum</i> Brug. } = <i>Achatina fasciata</i> .	
137			<i>zebra</i> Orb. }	
137			<i>vermetus</i> Anthony (sp.)	Cincinnati.
137			Macroceramus pontificus Gld.	E. Florida and Cuba.
			<i>Bulimus Kieneri</i> ?	
			<i>Pupa pontifica</i> Gould.	
133			Achatina fasciata Müll.	Florida.
			<i>Bulimus fasciatus</i> Binney.	
			<i>Buccinum fasciatum</i> Müll.	
			<i>A. solida</i> Say.	
			<i>picta</i> Rve., &c. &c.	
			<i>Agatina variegata</i> Raf.	
138			<i>lubrica</i> Müll.	N. W. Terr., N. Ern
			<i>Bulimus lubricus</i> Binney.	and Midd. States.
			<i>lubricoides</i> St., &c. &c.	
138			virginea Jay (sp.)	
			<i>Bulimus vexillum</i> De Kay.	
138			<i>bullata</i> Pfr.	} = Glandina .
139			<i>striata</i> De Kay.	
139			<i>Texasiana</i> Pfr.	
139			<i>truncata</i> Pfr.	
139			<i>Vanuxemensis</i> Pfr.	
139			flammigera De Kay (sp.)	
139			<i>flammigera</i> Say = <i>Bulimus zebra</i> .	
139			<i>gracillima</i> Pfr. = <i>Bulimus</i> .	
139			<i>pellucida</i> Binney = <i>Blauneria pellucida</i> .	
139			<i>rosea</i> Desh. = <i>Glandina truncata</i> .	
139			<i>subula</i> Pfr. = <i>Bulimus</i> .	
139			Glandina bullata Gould.	Louisiana.
			<i>Achatina bullata</i> Pfr.	
			<i>Oleacina bullata</i> Gr. and Pf.	
139	lxi	1	corneola W. G. Binney.	Texas and Mexico.
			<i>G. truncata</i> (var.) Binney.	
140	lxii	2	parallela W. G. Binney.	Louisiana.
			<i>G. truncata</i> (var.) Binney.	
140	lxxvii	21	Texasiana Pfr.	Texas.
			<i>G. truncata</i> (var.) Binney.	
			<i>Achatina Texasiana</i> Pfr.	

Page.	Plate.	Fig.	Name.	Locality.
141	lxxx	9	Glandina truncata Gmelin. <i>Achatina truncata</i> Pfr., &c. <i>Planorbis glans</i> De Kay. <i>Oleacina truncata</i> Gr. and Pfr. <i>Achatina striata</i> Ch.	Southern States.
141			Vanuxemensis Lea. <i>Achatina Vanuxemensis</i> Pfr. <i>Oleacina Vanuxemensis</i> Gr. and Pfr.	Texas and Mexico.
141	lxxix	17	Pupa incana Binney. <i>P. maritima</i> Gould, non Pfr. <i>detrita</i> Shuttl.	Florida and Cuba.
142			modica Gould.	Florida.
142			armifera Say. <i>P. rupicola</i> Pfr. Symb.	Whole country?
142			badia Adams. <i>P. muscorum</i> teste Pfr.	Crown Point.
143			contracta Say. <i>P. corticaria</i> Pfr. Symb. <i>deltostoma</i> Charp. <i>Vertigo contracta</i> Ad. Gen.	Whole country?
143			decora Gould. <i>Vertigo decora</i> Ad. Gen.	Lake Superior.
143			pentodon Say. <i>Vertigo pentodon</i> Say. <i>P. curvidens</i> Gould. <i>Tappaniana</i> Ward.	Whole country?
144			placida Say. <i>P. fallax</i> teste De Kay, &c. <i>Bulinus hordeaceus?</i> teste De Kay. <i>obscurus</i> teste Gould, &c.	Massachusetts.
145			rupicola Say. <i>Carychium?</i> <i>rupicola</i> Say. <i>P. procera</i> Gould. <i>carinata</i> Gould. <i>gibbosa</i> Chemn. <i>minuta</i> Pfr. <i>Vertigo rupicola</i> Binney. <i>minuta</i> Ads. Gen.?	Ark., S. C., Md., Fla., and St. Croix.
146			variolosa Gould. <i>Vertigo variolosa</i> Ads. Gen.	East Florida.
146			corticaria Say. <i>Odostomia corticaria</i> Say. <i>Carychium corticaria</i> Fer.	Mid. States & Miss.
147			pellucida Pfr.	Texas and Cuba.

Page.	Plate.	Fig.	Name.	Locality.
147			Pupa Hoppii Möll.	Greenland.
			<i>P. Steenbuchii</i> Beck.	
147			<i>albilabris</i> Adams = Bulimus marginatus .	
147			<i>costulata</i> Mighels = Bulimus harpa .	
147			<i>exigua</i> Say = Carychium .	
147			<i>fallax</i> Say = Bulimus marginatus .	
148			<i>Gouldii</i> Binney } = Vertigo .	
148			<i>milium</i> Gould }	
148			<i>modesta</i> Say }	
148			<i>ovata</i> Gould }	= Vertigo ovata .
148			<i>ovulum</i> Pfr. }	
148			<i>Parraiana</i> Orb. = Bulimus marginatus .	
148			<i>simplex</i> Gould = Vertigo .	
148			<i>unicarinata</i> Binney = Macr. pontificus .	
148			Vertigo Gouldii Binney.	N. England, Penn'a,
			<i>Pupa Gouldii</i> Binney.	N. Y., and Md.
148			milium Gould.	New England, Ohio,
			<i>Pupa milium</i> Gould.	Mississippi.
148			ovata Say.	Whole country?
			<i>Pupa ovata</i> Gould, &c.	
			<i>modesta</i> Say.	
			<i>ovulum</i> Pfr.	
148			simplex Gould.	Mass. and Conn.
			<i>Pupa simplex</i> Gould, &c.	
149			<i>contracta</i> Ads. Gen. } = Pupa .	
149			<i>decora</i> Ads. Gen. }	
149			<i>minuta</i> Ads. Gen. = Pupa rupicola .	
149			<i>pentodon</i> Say } = Pupa .	
149			<i>rupicola</i> Binney. }	
149			Cylindrella variegata Pfr.	Florida?
			<i>C. lactaria</i> Gould.	
149			Poeyana Orb.	Florida.
			<i>Pupa Poeyana</i> Orb.	
			<i>C. lactaria</i> Binney in tab.	
150			jejuna Gould.	Florida.
			<i>C. variegata</i> teste Pfr.	
150			Roemeri Pfr.	New Braunfels, Tex.
151	lxxix	23	Goldfussi Pfr.	Texas.
151			<i>pontifica</i> Gould = Macroceramus .	
152			<i>Aplodon nodosum</i> Raf.	
152			<i>Chimotrema planiuscula</i> Raf.	
152			<i>Hemiloma avara</i> Raf.	
152			<i>Mesodon maculatum</i> Raf.	
152			<i>Mesomphix</i> Raf.	
152			<i>Odotropis</i> Raf.	

Page.	Plate.	Fig.	Name.	Locality.
152			<i>Omphalina cuprea</i> Raf. = Helix fuliginosa?	
152			<i>Stenostoma</i> Raf.	
152			<i>Stenotrema convexa</i> Raf.	
152			<i>Toxostoma globularis</i> Raf.	
152			<i>Toxotrema complanata</i> Raf.	
152			<i>Triodopsis lunula</i> Raf.	
152			<i>Trophodon</i> Raf.	
152			<i>Xolotrema lunula</i> Raf.	
152			<i>triodopsis</i> Raf.	
152			<i>Partula Otaheitana</i> Fer. (e. l.)	

Family **Auriculacea.**

156	lxxv	23	Melampus bidentatus Say.	Whole coast.
			<i>M. biplicatus</i> Pfr.	
			<i>corneus</i> Stimp.	
			<i>Jaumei</i> Pfr.	
			<i>lineatus</i> Beck.	
			<i>Auricula cornea</i> Desh.	
			<i>bidentata</i> Gould.	
			<i>Jaumei</i> Mitre.	
			<i>biplicata</i> Desh.	
			<i>Conovulus biplicatus</i> Beck.	
161	lxxv	12, 13	cingulatus Pfr.	Florida and W. I.
			<i>Auricula oliva</i> Orb.	
			<i>stenostoma</i> Küst.	
			&c. &c.	
162	lxxv	21, 25	cofea Linn.	Fla., Mex., & W. I.
			(Synonyms all foreign.)	
165	lxxv	30	Floridanus Pfr.	Florida.
			(Synonyms all foreign.)	
166			flavus Gmelin (cut).	Florida.
			(Synonyms all foreign.)	
167			obliquus Say.	South Carolina.
			<i>Auricula obliqua</i> De Kay.	
168	lxxv	29	pusillus Gmelin.	Florida.
			(Synonyms all foreign.)	
170			Redfieldi Pfr.	Florida?
171			<i>borealis</i> Conrad	} = Alexia myosotis.
171			<i>denticulatus</i> Stimp.	
171			<i>Auricula bidentata</i>	} = Melampus.
171			<i>biplicata</i>	
171			<i>cingulata</i>	
171			<i>coniformis</i>	
171			<i>cornea</i>	
172			<i>denticulata</i>	

Page.	Plate.	Fig.	Name.	Locality.
172			<i>Auricula Floridana</i> = Melampus .	
172			<i>Jaumei</i> = Melampus bidentatus .	
172			<i>nitens</i> = pusillus .	
172			<i>obliqua</i> = obliquus .	
172			<i>oliva</i> = cingulatus .	
172			<i>pusilla</i> = pusilius .	
172			<i>Sayii</i> = Leuconia .	
172			<i>stenostoma</i> = Melampus cingulatus .	
172	lxxv	33	Alexia myosotis Drap.	Mass., N. Y., R. I.
	lxxix	16	<i>Auricula denticulata</i> Gould.	
			<i>Melampus denticulatus</i> Stimp.	
			<i>borealis</i> Conrad.	
			<i>turritus</i> Say ined.	
175			Blauneria pellucida Pfr.	Florida, S. Carolina.
			<i>Achatina pellucida</i> Binney.	
			(Other synonyms foreign.)	
177	lxxv	34	Leuconia (?) Sayii Küster.	
			<i>Auricula Sayii</i> Küst.	
178			Carychium exiguum Say.	Whole country?
			<i>Pupa exigua</i> Say.	
			<i>Bulinus exiguus</i> Binney.	
			<i>C. exile</i> H. C. Lea.	
			<i>existelium</i> Bourg.	
			<i>euphaum</i> Bourg.	
183			<i>armigerum</i>	} = Pupa .
183			<i>contractum</i>	
183			<i>rupicolum</i>	
183			<i>corticarium</i>	

Family **Aciculacea**.

185	lxxv	2, 4	Truncatella Caribæensis Sowb.	Fla., Mexico, Ala.
			(Synonyms all foreign.)	
186	lxxv	5, 6, 8	subcylindrica Gray.	Florida.
188	lxxv	3, 7	bilabiata Pfr.	Florida.
189	lxxv	1, 9, 10	pulchella Pfr.	Florida.

Family **Cyclostomacea**.

191	lxxv	24	Chondropoma dentatum Say.	Florida.
			<i>Cyclostoma dentatum</i> Say.	
191			<i>Cyclostoma Cincinnatiensis</i> Lea	} = Amnicola .
191			<i>lapidaria</i> Say	
191			<i>marginalis</i> Kirt.	} = Bul. marginatus .
191			<i>marginata</i> Say	
191			<i>tricarinata</i> Say	= Valvata .

Family **Helicinacea.**

Page.	Plate.	Fig.	Name.	Locality.
192			Helicina chrysocheila Binney.	Tampico, Texas.
192	lxxv	14, 16	Hanleyana Pfr.	New Orleans.
193			occulta Say (fossil?)	Western States.
			<i>H. rubella</i> Green?	
193			orbiculata Say.	Georgia, Tenn., Ala.,
			<i>Olggyra orbiculata</i> Say.	Texas, &c.
			<i>H. vestita</i> Guild?	
			<i>castanea</i> Sowerby?	
194			tropica Ian. (pl. lxxiii part.)	Texas.
			<i>H. Ambeliana</i> Sowerby.	
195	lxxv	17	subglobulosa Poey.	Key Biscayne.
196			<i>fastigiata</i> De Kay	} = Helix.
196			<i>plicata</i> De Kay	

Tufts.—Catalogue of Shells deposited in the State Cabinet; by
SAMUEL TUFTS, Jr. (From Catalogue of Massachusetts State
Cabinet—Appendix. Boston, 1859.)

Pa.	No.		Pa.	No.	
85	26	Teredo navalis.	85	57	Mesodesma arcata.
85	27	Pholas costata.	85	58	Jauresii.
85	11	crispata.	85	59	Montacuta bidentata.
85	28	Solen ensis.	85	60	Kellia rubra.
85	30	Solecurtus caribbæus.	85	61	Saxicava distorta.
85	33	Machæra nitida.	85	25	rugosa Stimpson.
85	34	costata.	85	63	Petricola pholadiformis.
85	35	Solemya velum.	85	66	Sanguinolaria fusca.
85	36	borealis.	85	67	sordida.
85	39	Glycymeris siliqua.	85	67	Tellina tenta.
85	40	Mya arenaria.	85	68	tenera.
85	42	truncata.	85	69	Lucina radula.
85	43	Corbula contracta.	85	71	flexuosa.
85	46	Lyonsia hyalina.	86	72	Cyclas partumeia.
85	47	Anatina papyracea.	86	74	elegans.
85	49	Cochlodesma Leana.	86	75	Pisidium dubium.
85	50	Thracia Conradi.	86	76	Astarte castanea.
85	23	Couthouyi.	86	78	sulcata.
85	22	truncata.	86	80	lactea.
85	51	Mactra solidissima.	86	81	quadrans.
85	53	ovalis.	86	82	Cyprina Islandica.
85	54	lateralis.	86	84	Cytherea convexa.

Pa.	No.		Pa.	No.	
86	85	<i>Venus mercenaria</i> .	86	146	<i>Chiton apiculatus</i> .
86	86	notata.	86	148	fulminatus.
86	88	gemma.	86	149	ruber.
86	89	<i>Cardium Islandicum</i> .	86	150	albus.
86	90	pinnulatum.	86	151	Emersonianus.
86	91	Mortoni.	87	153	<i>Lottia testudinalis</i> .
86	92	<i>Greenlandicum</i> .	87	154	alveus.
86	94	<i>Cardita borealis</i> .	87	155	<i>Dentalium dentale</i> .
86	95	<i>Arca pexata</i> .	87	156	<i>Cemoria Noachina</i> .
86	96	transversa.	87	158	<i>Crepidula fornicata</i> .
86	97	<i>Nucula thraciæformis</i> .	87	159	plana.
86	98	limatula.	87	160	convexa.
86	99	myalis.	87	162	<i>Bulla insculpta</i> .
86	100	sapotilla.	87	163	hiemalis.
86	101	minuta.	87	163	Gouldii.
86	102	Jacksonii.	87	164	debilis.
86	103	proxima.	87	165	triticea.
86	105	tenuis.	87	166	canaliculata.
86	107	<i>Unio complanatus</i> .	87	167	obstricta.
86	109	nasutus.	87	168	oryza.
86	110	radiatus.	87	169	lineolata.
86	111	cariosus.	87	170	<i>Helix albolabris</i> .
86	112	ochraceus.	87	171	thyroidus.
86	113	<i>Alasmodon arcuata</i> .	87	172	hortensis.
86	115	undulata.	87	173	tridentata.
86	116	marginata.	87	174	monodon.
86	117	<i>Anodon fluviatilis</i> .	87	175	hirsuta.
86	118	implicata.	87	176	pulchella.
86	120	undulata.	87	177	alternata.
86	121	<i>Mytilus edulis</i> .	87	178	striatella.
86	123	<i>Modiola modiolus</i> .	87	179	lineata.
86	125	plicatula.	87	180	cellaria.
86	127	pectinula.	87	181	indentata.
86	128	nexa.	87	182	arborea.
86	129	discrepans.	87	184	labyrinthica.
86	130	discors.	87	185	chersina.
86	131	glandula.	87		Pupa ——— ?
86	132	<i>Pecten Magellanicus</i> .	87		———— ?
86	133	Islandicus.	87	193	<i>Bulimus lubricus</i> .
86	134	concentricus.	87	194	<i>Succinea ovalis</i> .
86	137	<i>Ostrea borealis</i> .	87	195	obliqua.
86	138	<i>Anomia ephippium</i> .	87	196	avara.
86	141	<i>Terebratula caput serpentis</i> .	87	197	<i>Auricula bidentata</i> .
			87	199	denticulata.
86	142	psittacea.	87	201	<i>Planorbis trivolvis</i> .

Pa.	No.		Pa.	No.	
87	202	<i>Planorbis lentus</i> .	88	261	<i>Lacuna vineta</i> .
87	203	<i>bicarinatus</i> .	88	263	var. <i>fusca</i> .
87	204	<i>campanulatus</i> .	88	263	<i>neritoidea</i> .
87	205	<i>armigerus</i> .	88	265	<i>Cingula minuta</i> .
87	206	<i>hirsutus</i> .	88	266	<i>aculeus</i> .
87	209	<i>parvus</i> .	88	267	<i>Turritella erosa</i> .
87	211	<i>Physa heterostropha</i> .	88	35	<i>acicula Stimpson</i> .
87	213	<i>ancillaria</i> .	88	269	<i>Pyramis striatula</i> .
87	214	<i>elongata</i> .	88	272	<i>Odostomia exigua</i> .
87	215	<i>Limnea columella</i> .	88	275	<i>Cerithium Emersonii</i> .
87	217	<i>macrostoma</i> .	88	278	<i>Sayii</i> .
87	218	<i>modicellus</i> .	88	279	<i>Greenii</i> .
87	219	<i>decidiosa</i> .	88		<i>Pleurotoma cerinum</i>
87	221	<i>elodes</i> .	88	280	<i>decussata</i> . [<i>Stimp</i>].
87	224	<i>Ancylus fuscus</i> .	88	283	<i>Cancellaria Couthouyi</i> .
87	224	<i>rivularis</i> .	88	284	<i>Fusus Islandicus</i> .
87	225	<i>Valvata tricarinata</i> .	88	285	<i>ventricosus</i> .
87	226	<i>pupoidea</i> .	88	287	<i>decemcostatus</i> .
87	227	<i>Paludina decisa</i> .	88	288	<i>scalariformis</i> .
87	229	<i>Amnicola porata</i> .	88	289	<i>Bamffius</i> .
87	231	<i>Natica heros</i> .	88	290	<i>rufus</i> .
87	233	<i>triseriata</i> .	88	291	<i>harpularius</i> .
87	234	<i>immaculata</i> .	88	292	<i>turricula</i> .
87	235	<i>canaliculata</i> .	88	293	<i>muricatus</i> .
87	236	<i>duplicata</i> .	88	294	<i>Pyrula canaliculata</i> .
87	237	<i>pusilla</i> .	88	296	<i>carica</i> .
87	238	<i>clausa</i> .	88	297	<i>Ranella caudata</i> .
87	239	<i>flava</i> .	88	298	<i>Rostellaria occiden-</i>
87	240	<i>Janthina fragilis</i> .			<i>talis</i> .
88	241	<i>Velutina lævigata</i> .	88	300	<i>Trichotropis borealis</i> .
88	242	<i>zonata</i> .	88	301	<i>Purpura lapillus</i> .
88	244	<i>Sigaretus haliotoideus</i> .	88	303	<i>Buccinum plicosum</i> .
88	246	<i>Vermetus lumbricalis</i> .	88	304	<i>Donovani</i> .
88	249	<i>Scalaria Grœnlandica</i> .	88	305	<i>undatum</i> .
88	252	<i>Margarita cinerea</i> .	88	307	<i>ciliatum</i> .
88	253	<i>obscura</i> .	88	308	<i>obsoletum</i> .
88	254	<i>undulata</i> .	88	309	<i>trivittatum</i> .
88	255	<i>arctica</i> .	88	310	<i>vibex</i> .
88	256	<i>argentata</i> .	88	311	<i>rosaceum</i> .
88	257	<i>Littorina rudis</i> .	88	312	<i>lunatum</i> .
88	259	<i>tenebrosa</i> .	88	313	<i>Columbella avara</i> .
88	260	<i>palliat</i> a.			

Carpenter.—Report on the Present State of our Knowledge with regard to the Mollusca of the West Coast of North America: by PHILIP P. CARPENTER. (From the Report of the British Association for the Advancement of Science for 1856. London, 1857.)

[To this admirable Report I refer for the full synonymy, references, and dates of the species of the following list, which embodies the selected names only of the species of the "Northern Fauna" and "Gulf of California," omitting those of Central America, Panama, and Gallapagos. As stated in the preface, I have not given the same attention to the synonymy of the west coast species, the labor having been so thoroughly done by Mr. CARPENTER. The names of species about which any doubt exists are included in parentheses. I omit the Bryozoa.—W. G. B.]

I. ARCTIC FAUNA.

CLASS PALLIOBRANCHIATA.

Page.	Page.
298	<i>Rhynchonella psittacea.</i>

CLASS LAMELLIBRANCHIATA.

299	<i>Saxicava pholadis.</i>	305	<i>Venus (Astartoides).</i>
299	<i>Petricola gibba.</i>	306	<i>Astarte (corrugata).</i>
299	<i>cylindracea.</i>	307	<i>Cardium Californiense.</i>
299	<i>Saxidomus gigantea.</i>	307	<i>Nuttalli.</i>
299	<i>Petitii.</i>	309	<i>Mytilus edulis.</i>
300	<i>Mya arenaria.</i>	309	<i>Modiola cultellus.</i>
300	<i>Lutraria maxima.</i>	309	<i>modiolus.</i>
301	<i>Machæra costata.</i>	310	<i>Pectunculus septentrio-</i>
301	<i>Tellina solidula.</i>		<i>nalis.</i>
301	<i>(lata).</i>	310	<i>Nucula castrensis.</i>
301	<i>(lutea).</i>	311	<i>Pecten rubidus.</i>
301	<i>edentula.</i>	312	<i>Placunanomia patellifor-</i>
302	<i>nasuta.</i>		<i>mis.</i>
304	<i>Mactra (ovalis).</i>	312	<i>(macrochisma).</i>

CLASS GASTEROPODA.

313	<i>Dendronotus arborescens.</i>	317	<i>Tonicia Brandtii.</i>
313	<i>Æolis pinnata.</i>	317	<i>Sitchensis.</i>
313	<i>Flabellina crassicornis.</i>	317	<i>Eschscholtzii.</i>
313	<i>subrosacea.</i>	317	<i>Merckii.</i>
317	<i>Dentalium politum.</i>	317	<i>insignis.</i>
317	<i>Lepidochiton lividus.</i>	317	<i>lineata.</i>

Page.		Page.	
318	<i>Katherina submarmorea.</i>	327	<i>Lacuna glacialis.</i>
318	<i>tunicata.</i>	328	<i>Trichotropis (bicarinata).</i>
318	<i>Cryptochiton Stelleri.</i>	328	<i>cancellata.</i>
318	[Gen. indet.] <i>Wosnessenskii.</i>	328	<i>insignis.</i>
318	<i>Nacella Asmi.</i>	328	<i>inermis.</i>
319	<i>Acmaea personoides.</i>	329	<i>Admete viridula.</i>
319	<i>pileolus.</i>	329	<i>arctica.</i>
319	<i>digitalis.</i>	336	<i>Scalaria Groenlandica.</i>
319	<i>cassis.</i>	336	<i>Natica clausa.</i>
319	<i>pelta.</i>	336	<i>Lunatia flava.</i>
319	<i>patina.</i>	337	<i>Velutina coriacea.</i>
319	<i>persona.</i>	337	<i>spongiosa.</i>
319	<i>Scurria mitra.</i>	337	<i>Sitchensis.</i>
319	<i>Fissurella (violacea).</i>	338	(<i>Argobuccinum</i>) <i>cancellata-</i>
320	<i>Glyphis aspera.</i>	338	<i>scabrum.</i> [tum.]
320	<i>Haliotis aquatilis.</i>	340	<i>Purpura Freycinetii.</i>
320	<i>Kamtschatkiana.</i>	340	(<i>decemcostata</i>).
320	<i>Callopoma (Fokkesii).</i>	340	<i>lapillus.</i>
321	<i>Osilinus ater.</i>	340	<i>septentrionalis.</i>
321	<i>Omphalius modestus.</i>	342	<i>Buccinum tenebrosus.</i>
321	<i>mæstus.</i>	342	(<i>ovum</i>).
321	<i>euryomphalus.</i>	342	<i>Bulla ampullacea.</i>
321	<i>Margarita arctica.</i>	343	<i>Chrysodomus Sabinii.</i>
321	<i>striata.</i>	343	(<i>antiquus</i>).
321	<i>sulcata.</i>	343	(<i>deformis</i>).
321	<i>callostoma.</i>	343	(<i>Islandicus</i>).
323	<i>Crepidula (grandis).</i>	343	(<i>Behringii</i>).
323	<i>Sitchana.</i>	343	(<i>Baeri</i>).
323	<i>minuta.</i>	343	<i>Sitchensis.</i>
325	<i>Turritella Eschrichtii.</i>	343	<i>luridus.</i>
326	<i>Littorina Kurila.</i>	343	<i>Trophon clathratum.</i>
326	<i>Sitchana.</i>	345	(<i>Cerastoma</i>) <i>monodon.</i>
326	<i>modesta.</i>	345	(<i>Muricidea</i>) <i>lactuca.</i>
326	[<i>aspera</i>].		

CLASS CEPHALOPODA.

345	<i>Octopus</i> ———.		345	<i>Onychoteuthis (Bergii).</i>
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II. OREGON FAUNA.

CLASS PALLIOBRANCHIATA.

298	<i>Terebratula pulvinata.</i>		298	<i>Terebratula canrena.</i>
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CLASS LAMELLIBRANCHIATA.

Page.		Page.	
299	<i>Petricola cylindracea</i> .	308	<i>Cyclas patella</i> .
299	<i>Saxidomus Nuttalli</i> .	308	egregia.
300	<i>Mya præcisæ</i> .	309	<i>Unio famelicus</i> .
300	<i>Panopœa generosa</i> .	309	<i>Alasmodon falcata</i> .
300	<i>Lyonsia bracteata</i> .	309	<i>Anodon feminalis</i> .
301	(picta).	309	<i>Oregonensis</i> .
301	<i>Solen sicarius</i> .	309	<i>Wahlamatensis</i> .
301	maximus.	309	cognata.
301	<i>Machæra Nuttalli</i> .	309	Nuttalliana.
301	<i>Sanguinolaria Californiana</i> .	309	<i>Mytilus edulis</i> .
301	<i>Tellina edentula</i> .	309	(Californianus).
302	nasuta.	309	<i>Modiola modiolus</i> .
302	(inquinata).	309	elongata.
302	Californica.	309	flabellata.
302	Bodegensis.	309	<i>Crenella discrepans</i> .
302	secta.	310	<i>Pectunculus septentrionalis</i> .
304	<i>Mactra falcata</i> .	311	<i>Pecten Fabricii</i> . [lis.
305	<i>Venus calcarea</i> .	311	caurinus.
305	ampliata.	311	hericeus.
305	——.	311	Townsendi.
305	rigida.	312	<i>Ostrea ? conchaphila</i> .
306	<i>Cardita ventricosa</i> .	312	<i>Placunanomia cepio</i> .
307	<i>Cardium Nuttalli</i> .	312	alope.
307	blandum.	312	<i>Anomia lampe</i> .

CLASS GASTEROPODA.

313	<i>Doris</i> ——.	314	<i>Helix Kelletti</i> .
313	<i>Goniodoris</i> ——.	314	tudiculata.
313	<i>Dendronotus</i> ——.	314	Columbiana.
313	<i>Æolis</i> ——.	314	Townsendiana.
313	<i>Chloræra leonina</i> .	314	Californiensis.
313	<i>Haminea</i> ——.	314	areolata.
313	<i>Limax Columbianus</i> .	315	<i>Succinea rusticans</i> .
313	<i>Arion foliolatus</i> .	315	<i>Oregonensis</i> .
314	<i>Helix Oregonensis</i> .	316	<i>Limnæa lepida</i> .
314	labiosa.	316	apicina.
314	loricata.	316	Nuttalliana.
314	<i>Baskervillei</i> .	316	ferruginea.
314	fidelis.	316	umbrosa.
314	strigosa.	316	<i>Physa bullata</i> .
314	sportella.	316	——.
314	<i>Vancouverensis</i> .	316	<i>Planorbis vermicularis</i> .
314	germana.	316	corpulentus.
314	<i>Pandoræ</i> .	316	subcrenatus.

Page.		Page.	
316	<i>Planorbis opercularis</i> .	325	<i>Melania plicifera</i> .
317	<i>Dentalium</i> ———.	325	<i>bulbosa</i> .
317	<i>Callochiton interstinctus</i> .	325	<i>plicata</i> .
317	<i>Chiton muscosus</i> .	326	<i>Litorina lepida</i> .
318	<i>Mopalia vespertina</i> .	326	<i>scutellata</i> .
318	<i>Katherina Douglasiæ</i> .	327	<i>Lacuna carinata</i> .
318	<i>Cryptochiton Stelleri</i> .	328	<i>Trichotropis borealis</i> .
318	[Gen. indet.] <i>lignosus</i> .	331	<i>Bela fidicula</i> .
318	<i>dentiens</i> .	335	<i>Cerithiopsis filosa</i> .
318	<i>Nacella instabilis</i> .	336	<i>Scalaria australis</i> .
319	<i>Acmaea pelta</i> .	336	————.
319	<i>persona</i> .	336	<i>Lunatia caurina</i> .
319	<i>textilina</i> .	336	<i>impervia</i> .
319	<i>fimbriata</i> .	336	<i>Lewesii</i> .
319	<i>cribraria</i> .	336	<i>algida</i> .
319	<i>spectrum</i> .	337	<i>Polinices perspicua</i> .
319	<i>Scurria mitra</i> .	337	<i>Triton (tigrinus)</i> .
320	<i>Glyphis cratitia</i> .	338	(<i>Argobuccinum</i>) <i>Oregon-</i>
320	<i>Puncturella cucullata</i> .	339	<i>Olivella</i> ———. [ensea.
320	<i>galeata</i> .	340	<i>Purpura lapillus</i> .
320	<i>Haliotis</i> ———.	340	<i>septentrionalis</i> .
320	<i>Trochus annulatus</i> .	340	<i>ostrina</i> .
320	(<i>Ziziphinus</i>) <i>filosus</i> .	340	<i>lagena</i> .
321	(<i>lima</i>).	341	<i>Columbella gausapata</i> .
321	<i>Trochiscus Norrisii</i> .	342	<i>Buccinum corrugatum</i> .
321	<i>Livonia (pica)</i> .	342	<i>Nassa mendica</i> .
323	<i>Galerus fastigiatus</i> .	342	<i>fossata</i> .
323	<i>Crepidula ? nummaria</i> .	343	<i>Trophon Orpheus</i> .
323	<i>rostriformis</i> .	343	<i>corrugatum</i> .
323	<i>? lingulata</i> .	343	<i>cancellinum</i> .
325	<i>Melania silicula</i> .	345	(<i>Cerastoma</i>) <i>foliatum</i> .

III. UPPER CALIFORNIA FAUNA.

CLASS **PALLIOBRANCHIATA.**

298	<i>Discina Evansii</i> .		298	<i>Waldheimia (Californica)</i> .
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CLASS **LAPELLIBRANCHIATA.**

299	<i>Pholadidea penita</i> .		299	<i>Saxidomus Nuttalli</i> .
299	<i>Parapholas Californica</i> .		300	<i>Lutraria maxima</i> .
299	<i>Saxicava pholadis</i> .		300	<i>Platyodon cancellata</i> .
299	<i>Petricola cylindræa</i> .		300	<i>Cryptodon Nuttalli</i> .
299	<i>Californica</i> .		300	<i>Sphænia Californica</i> .
299	<i>Rupellaria lamellifera</i> .		300	<i>Corbula polychroma</i> .
299	<i>Saxidomus Petiti</i> .		300	(<i>bicarinata</i>).

Page.		Page.	
300	<i>Corbula</i> (nasuta).	307	<i>Chama</i> exogyra.
300	<i>Thracia</i> curta.	307	pellucida.
300	<i>Lyonsia</i> Californica.	307	fr. Mexicana.
301	<i>Mytilimeria</i> Nuttalli.	307	<i>Cardium</i> Californiense.
301	<i>Pandora</i> punctata.	307	Nuttalli.
301	<i>Machæra</i> Nuttalli.	307	quadragenarium.
301	lucida.	307	(Laperoussii).
301	<i>Solecurtus</i> subteres.	308	<i>Diplodonta</i> orbella.
301	Californianus.	308	<i>Kellia</i> Laperousii.
301	<i>Sanguinolaria</i> grandis.	309	<i>Alasmodon</i> falcata.
301	rubroradiata.	309	<i>Anodon</i> cognata.
302	<i>Tellina</i> Bodegensis.	309	Nuttalliana.
302	secta.	309	angulata.
302	alta.	309	<i>Mytilus</i> edulis.
303	? <i>Scrobicularia</i> biangularis.	309	Californianus.
304	<i>Cumingia</i> Californica.	309	bifurcatus.
304	<i>Donax</i> flexuosus.	309	glomeratus.
304	Californicus.	309	<i>Modiola</i> recta.
304	rostratus.	309	nitens.
304	gracilis.	309	capax.
304	<i>Mactra</i> Californica.	309	<i>Lithophagus</i> Gruneri.
304	planulata.	310	<i>Byssoarca</i> (gradata).
305	<i>Trigona</i> tantilla.	310	<i>Pectunculus</i> (inæqualis).
305	crassatelloides.	311	<i>Nucula</i> cælata.
305	<i>Dosinia</i> callosa.	311	<i>Leda</i> (polita).
305	<i>Venus</i> rigida.	311	<i>Isognomon</i> costellatum.
305	Nuttalli.	311	<i>Pecten</i> latiauritus.
306	? <i>Tapes</i> diversa.	312	<i>Ostrea</i> ———.
306	tumida.	312	conchaphila.
306	straminea.	312	<i>Placunanomia</i> macroschis-
306	<i>Trapezium</i> Californicum.	312	<i>Anomia</i> lampe. [ma.

CLASS GASTEROPODA.

313	<i>Bulla</i> nebulosa.	314	<i>Helix</i> infumata.
313	<i>Tornatina</i> culcitella.	314	levis.
313	cerealis.	314	vecillata.
314	<i>Helix</i> tudiculata.	314	Sagraiana.
314	Columbiana.	314	æruginea.
314	Townsendiana.	315	<i>Succinea</i> ———.
314	Californiensis.	316	<i>Limnæa</i> umbrosa.
314	areolata.	316	<i>Physa</i> humerosa.
314	vineta.	316	virginiea.
314	loricata.	316	virgata.
314	Nickliniana.	316	<i>Planorbis</i> opercularis.
314	<i>Dupetithouarsii</i> .	316	ammon.

Page.		Page.	
316	<i>Planorbis gracilentus</i> .	321	<i>Omphalius Pfeifferi</i> .
317	<i>Lophyrus (Stokesii)</i> .	321	<i>fuscescens</i> .
317	<i>Lepidochiton Mertensii</i> .	321	<i>marginatus</i> .
317	<i>scrobiculatus</i> .	321	<i>maculosus</i> .
317	<i>Tonicia lineata</i> .	321	<i>aureotinctus</i> .
317	<i>Chiton scaber</i> .	323	<i>Crucibulum spinosum</i> .
318	<i>Mopalia Simpsonii</i> .	323	<i>Galerus (mammillaris)</i> .
318	<i>Cryptochiton Stelleri</i> .	323	<i>Crepidula</i> ———.
318	[Gen. indet.] <i>Wosnessenskii</i> .	323	<i>explanata</i> .
318	<i>Nuttalli</i> .	323	<i>solida</i> .
318	<i>Californicus</i> .	323	<i>aculeata</i> .
318	<i>acutus</i> .	323	<i>incurva</i> .
318	<i>consimilis</i> .	323	<i>rugosa</i> .
318	<i>Montereyensis</i> .	324	<i>Aletes squamigerus</i> .
318	<i>Hartwegii</i> .	324	<i>Spiroglyphus</i> ———.
318	<i>regularis</i> .	325	<i>Bittium</i> ———.
319	<i>Acmaea pelta</i> .	325	<i>Cerithidea sacrata</i> .
319	<i>patina</i> .	325	<i>Melania Wahlamatensis</i> .
319	<i>cribraria</i> .	325	<i>occata</i> .
319	<i>spectrum</i> .	325	<i>Amnicola protea</i> .
319	<i>toreuma</i> .	325	<i>longinqua</i> .
319	<i>grandis</i> .	326	<i>Bithinia seminalis</i> .
319	<i>scabra</i> .	326	<i>nuclea</i> .
319	<i>æuginosa</i> .	326	<i>Litorina modesta</i> .
319	<i>Scurria mitra</i> .	326	<i>planaxis</i> .
319	<i>Fissurella (violacea)</i> .	326	<i>plena</i> .
319	<i>ornata</i> .	326	<i>(aspera)</i> .
319	<i>volcano</i> .	327	<i>Lacuna unifasciata</i> .
320	<i>Glyphis densiclathrata</i> .	328	<i>Radius variabilis</i> .
320	<i>Lincolni</i> .	328	<i>Luponia spadicea</i> .
320	<i>Lucapina crenulata</i> .	328	<i>Trivia Californica</i> .
320	<i>Haliotis rufescens</i> .	328	<i>Erato lucophæa</i> .
320	<i>corrugata</i> .	328	<i>columbella</i> .
320	<i>splendens</i> .	332	<i>Clathurella (bella)</i> .
320	<i>Californiensis</i> .	332	<i>Conus ravus</i> .
320	<i>Cracherodii</i> .	332	<i>(comptus)</i> .
320	<i>Phasianella compta</i> .	333	<i>Odostomia grvida</i> .
320	<i>Callopoma Fokkesii</i> .	334	<i>Chemnitzia tenuicula</i> .
320	<i>Pomaulax undosus</i> .	334	<i>torquata</i> .
320	<i>Trochus annulatus</i> .	336	<i>Natica ?maroccana</i> .
320	<i>(Ziziphinus) filiosus</i> .	336	<i>var. Californica</i> .
320	<i>Antonii</i> .	336	<i>Lunatia herculæa</i> .
321	<i>Osilius ater</i> .	337	<i>Neverita Recluziana</i> .
321	<i>Omphalius mæstus</i> .	338	<i>(Argobuccinum) scabrum</i> .
321	<i>euryomphalus</i> .	338	<i>Mitra maura</i> .

Page.		Page.	
339	<i>Marginella Jewettii</i> .	341	<i>Monoceros</i> (brevidenta-
339	(imbricata).	341	<i>Nitidella Gouldii</i> . [tum).
339	<i>Olivella rufofasciata</i> .	341	<i>Columbella Santa Barba-</i>
339	biplicata.	341	carinata. [rensis.
340	<i>Purpura macrostoma</i> .	342	<i>Truncaria</i> (modesta).
340	harpa.	342	<i>Buccinum Poulsoni</i> .
340	emarginata.	342	<i>Nassa fossata</i> .
340	<i>Monoceros engonatum</i> .	342	perpinguis.
340	brevidens.	345	(<i>Cerastoma</i>) Nuttalli.
340	lapilloides.		

IV. LOWER CALIFORNIA FAUNA.

CLASS **PALIOBRANCHIATA.**298 *Lingula albida*.CLASS **LAMELLIBRANCHIATA.**

299	<i>Pholadidea penita</i> .	305	<i>Venus Nuttalli</i> .
299	ovoidea.	305	excavata.
299	<i>Parapholas Californica</i> .	305	simillima.
299	<i>Saxicava pholadis</i> .	305	fructifrago.
299	<i>Petricola Californica</i> .	305	dispar.
299	<i>Rupellaria lamellifera</i> .	305	Californiensis.
299	<i>Saxidomus Nuttalli</i> .	306	? <i>Tapes straminea</i> .
300	<i>Platyodon cancellata</i> .	306	gracilis.
300	<i>Sphaenia Californica</i> .	306	<i>Trapezium Californicum</i> .
300	<i>Lyonsia</i> (nitida).	307	<i>Chama exogyra</i> .
301	<i>Periploma argentaria</i> .	307	pellucida.
301	<i>Solecurtus subteres</i> .	307	<i>Cardium Californiense</i> .
301	Californianus.	307	Nuttalli.
301	<i>Sanguinolaria Nuttalli</i> .	307	substriatum.
301	miniata.	307	luteolabrum.
301	<i>Psammobia Pacifica</i> .	307	cruentatum.
302	<i>Tellina nasuta</i> .	307	elatum.
302	secta.	307	<i>Lucina bella</i> .
302	vicina.	307	Californica.
302	pura.	307	Nuttalli.
303	<i>Strigilla carnaria</i> .	307	punctata.
303	<i>Semele rubrolineata</i> .	308	<i>Diplodonta orbella</i> .
303	decisa.	309	<i>Mytilus Californianus</i> .
303	flavescens.	309	<i>Modiola capax</i> .
304	<i>Cumingia Californica</i> .	309	<i>Lithophagus attenuatus</i> .
304	<i>Donax</i> (obesus).	310	<i>Byssoarca pernoides</i> .
304	<i>Mactra nasuta</i> .	311	<i>Pecten latiauritus</i> .
305	<i>Trigona crassatelloides</i> .	311	floridus.

Page.		Page.	
311	<i>Pecten purpuratus.</i>	312	<i>Ostrea conchaphila.</i>
312	<i>Hinnites giganteus.</i>	312	<i>palmula.</i>

CLASS GASTEROPODA.

313	<i>Bulla nebulosa.</i>	324	<i>Petalonchus macro-</i> <i>phragma.</i>
313	<i>virescens.</i>	325	<i>Cerithium stercusmusca-</i>
313	<i>longinqua.</i>	325	<i>Cerithidea sacrata. [rumi.</i>
313	<i>Haminea vesicula.</i>	325	<i>pullata.</i>
313	<i>Tornatina inculta.</i>	325	<i>albonodosa.</i>
314	<i>Helix Kellettii.</i>	326	<i>Littorina ? fasciata.</i>
314	<i>tudiculata.</i>	328	<i>Radius (Californica).</i>
314	<i>Bulinus pallidior.</i>	328	<i>Erato vitellina.</i>
315	<i>Melampus olivaceus.</i>	329	<i>Cancellaria funiculata.</i>
316	<i>Physa virgata.</i>	329	<i>ventricosa.</i>
317	<i>Lepidopleurus Magdalen-</i>	330	<i>(Myurella) armillata.</i>
318	<i>Mopalia Blainvillei. [sis.</i>	330	<i>Pleurotoma gemmata.</i>
318	<i>[Gen. indet.] ornatus.</i>	330	<i>Drillia inermis.</i>
318	<i>Nacella depicta.</i>	330	<i>plumbea.</i>
318	<i>incessa.</i>	330	<i>luctuosa.</i>
319	<i>Acmæa patina.</i>	332	<i>Mangelia plumbea.</i>
319	<i>persona.</i>	332	<i>Conus Californicus.</i>
319	<i>spectrum.</i>	333	<i>Solarium placentale.</i>
319	<i>grandis.</i>	337	<i>Polinices ? uber.</i>
319	<i>scabra.</i>	338	<i>(Argobuccinum ? scabrum.)</i>
319	<i>mesoleuca.</i>	338	<i>Ranella triquetra.</i>
319	<i>fascicularis.</i>	338	<i>Californica.</i>
319	<i>Scurria mitra.</i>	338	<i>muriciformis.</i>
319	<i>Fissurella volcano.</i>	339	<i>Olivella (glandinaria).</i>
320	<i>Haliotis (Kamtschatki-</i>	340	<i>Purpura emarginata.</i>
320	<i>splendens. [ana.)</i>	340	<i>Rhizocheilus foveolata.</i>
320	<i>Californiensis.</i>	340	<i>Vitularia Belcheri.</i>
320	<i>Cracherodii.</i>	340	<i>Pseudoliva Kellettii.</i>
320	<i>Phasianella compta.</i>	341	<i>(lugubris).</i>
320	<i>Callopoma (Fokkesii).</i>	341	<i>Nitidella Californica.</i>
320	<i>(Ziziphinus) filiosus.</i>	341	<i>Columbella carinata.</i>
321	<i>Osilius (gallinus).</i>	341	<i>Californiana.</i>
321	<i>Omphalius mæstus.</i>	342	<i>Nassa fossata.</i>
321	<i>aureotinctus.</i>	342	<i>perpinguis.</i>
321	<i>brunneus.</i>	342	<i>tegula.</i>
323	<i>Crucibulum spinosum.</i>	345	<i>(Pteronotus) festivus.</i>
323	<i>Crepidula incurva.</i>	345	<i>(Muricidea) perita.</i>
324	<i>Hipponyx Grayanus.</i>		
324	<i>Aletes squamigerus.</i>		

V. GULF OF CALIFORNIA FAUNA.

CLASS PALLIOBRANCHIATA.

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298 *Discina Cumingii*.

CLASS LAMELLIBRANCHIATA.

299 *Pholadidea melanura*.299 *curta*.299 *Parapholas calva*.299 *acuminata*.299 *Martesia intercalata*.299 *Gastrochæna truncata*.299 *ovata*.299 *Saxicava* ? *arctica*.299 *Petricola dactylus*.299 *denticulata*.299 *ventricosa*.

299 ———.

299 *robusta*.299 *pholadiformis*.299 *Rupellaria foliacea*.299 *paupercula*.299 *lingua-felis*.299 *exarata*.

299 ———.

300 ? *Narano scobina*.

300 ———.

300 *Mya* ? ———.300 *Sphaenia fragilis*.

300 ——— (2 sp.)

300 *Corbula polychroma*.

300 ——— (2 sp.)

300 *bicarinata*.300 *tenuis*.300 *obesa*.300 *biradiata*.300 ? *ovulata*.300 *pustulosa*.300 *ventricosa*.300 *Thracia squamosa*.300 *Tyleria fragilis*.300 *Lyonsia* ———.301 *diaphana*.301 *picta*.301 *Periploma Leana*.301 *planiuscula*.301 *excurvata*.301 *papyracea*.301 *Pandora claviculata*.301 *Solecurtus politus*.

301 ———.

301 *affinis*.301 *Sanguinolaria miniata*.301 *tellinoides*.301 *Psammobia Kindermanni*.

301 ———.

302 *Tellina pura*.302 *gemma*.302 *Mazatlanica*.302 *Broderipii*.302 *straminea*.302 *donacilla*.302 *regularis*.302 *lamellata*.302 *delicatula*.302 *denticulata*.

302 ——— (3 sp.)

302 *rufescens*.302 *eburnea*.302 *Dombei*.302 *punicea*.302 *felix*.302 *Cumingii*.302 *puella*.302 *brevirostris*.303 *Strigilla carnaria*.303 *lenticula*.303 *pisiformis*.303 *dichotoma*.303 *ervilia*.303 *Tellidora Burneti*.303 ? *Scrobicularia producta*.

Page.		Page.	
303	<i>Semele flavescens.</i>	305	<i>Venus reticulata.</i>
303	<i>Californica.</i>	305	<i>undatella.</i>
303	? <i>venusta.</i>	305	—— (2 sp.)
304	<i>Cumingia Californica.</i>	306	? <i>crenifera.</i>
304	<i>lamellosa.</i>	306	<i>Columbiensis.</i>
304	<i>trigonalis.</i>	306	<i>amathusia.</i>
304	——.	306	<i>gnidia.</i>
304	<i>Iphigenia lævigata.</i>	306	<i>distans.</i>
304	<i>altior.</i>	306	<i>multicostata.</i>
304	<i>Donax rostratus.</i>	306	<i>Anomalocardia subimbri-</i>
304	<i>Carpenteri.</i>	306	<i>subrugosa.</i> [cata.
304	<i>transversus.</i>	306	? <i>Tapes squamosa.</i>
304	<i>punctatostriatus.</i>	306	<i>histrionica.</i>
304	<i>Conradi.</i>	306	<i>grata.</i>
304	<i>carinatus.</i>	306	<i>Gouldia varians.</i>
304	<i>assimilis.</i>	306	<i>Pacifica.</i>
304	<i>navicula.</i>	306	<i>Circe margarita.</i>
304	<i>Mactra pallida.</i>	306	<i>subtrigona.</i>
304	<i>goniata.</i>	306	<i>Trapezium</i> ——.
304	<i>fragilis.</i>	306	<i>Cardita Californica.</i>
304	<i>Californica.</i>	307	<i>Venericardia</i> ——.
304	<i>exoleta.</i>	307	<i>Chama exogyra.</i>
304	<i>angulata.</i>	307	fr. <i>Mexicana.</i>
304	<i>elegans.</i>	307	<i>spinosa.</i>
304	<i>Gnathodon mendicus.</i>	307	<i>Cardium elatum.</i>
305	? <i>Clementia gracillima.</i>	307	<i>alabastrum.</i>
305	<i>Trigona (crassatelloides).</i>	307	<i>rotundatum.</i>
305	<i>humilis.</i>	307	—— (7 sp. ind.)
305	<i>argentina.</i>	307	<i>graniferum.</i>
305	<i>radiata.</i>	307	(<i>maculosum</i>).
305	<i>planulata.</i>	307	? <i>senticosum.</i>
305	<i>Dosinia Annæ.</i>	307	<i>Belcheri.</i>
305	<i>ponderosa.</i>	307	<i>procerum.</i>
305	<i>Dunkeri.</i>	307	<i>Lucina punctata.</i>
305	<i>Cyclina subquadrata.</i>	307	<i>annulata.</i>
305	<i>Dione brevispinosa.</i>	307	? <i>muricata.</i>
305	<i>lupinaria.</i>	308	<i>excavata.</i>
305	<i>circinata.</i>	308	<i>pectinata.</i>
305	<i>concinna.</i>	308	<i>cancellaris.</i>
305	<i>rosea.</i>	308	<i>Mazatlanica.</i>
305	<i>chionæa.</i>	308	<i>prolongata.</i>
305	<i>aurantia.</i>	308	—— (3 sp.)
305	<i>vulnerata.</i>	308	<i>fenestrata.</i>
305	<i>Cythærea petechialis.</i>	308	<i>eburnea.</i>
305	<i>Venus Californiensis.</i>	308	<i>tigerrina.</i>

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308	? Fimbria ———.
308	Diplodonta semiaspera.
308	subquadrata.
308	obliqua.
308	Felania serricata.
308	Kellia suborbicularis.
308	Lasea ? rubra.
308	trigonalis.
308	oblonga.
308	———.
308	Lepton Clementinum.
308	Dionæum.
308	umbonatum.
308	Pythina sublævis.
308	Montacuta elliptica.
308	subquadrata.
308	———.
308	Cyrena olivacea.
308	Mexicana.
308	insignis.
309	subquadrata.
309	(Anodon ciconia).
309	Mytilus multiformis.
309	palliopunctatus.
309	Septifer Cumingianus.
309	Modiola capax.
309	Braziliensis.
309	Crenella coarctata.
309	Lithophagus attenuatus.
309	calyculatus.
309	cinnamomeus.
310	aristatus.
310	plumula.
310	Leiosolenus spatiosus.
310	———.
310	Arca bifrons.
310	cardiiformis.
310	——— (2 sp.)
310	brevifrons.
310	multicostata.
310	labiata.
310	tuberculosa.
310	grandis.

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310	Arca reversa.
310	emarginata.
310	Byssoarca vespertilio.
310	fusca.
310	gradata.
310	Pacifica.
310	mutabilis.
310	solida.
310	illota.
310	Pectunculus giganteus.
310	bicolor.
310	parcipictus.
310	? multicostatus.
310	inæqualis.
311	Nucula exigua.
311	Leda ? Elenensis.
311	Pinna lanceolata.
311	maura.
311	rugosa.
311	Avicula sterna. [ca.]
311	(Margaritiphora Mazatlani-
311	Isognomon Chemnitzia-
311	Janus. [num.]
311	Pecten circularis.
311	dentatus.
311	nodosus.
311	——— (2 sp.)
311	subnodosus.
311	Lima tetrica.
312	Spondylus ———
312	calcifer.
312	Plicatula penicillata.
312	Ostrea conchaphila.
312	palmula.
312	Cumingiana.
312	———.
312	Columbiensis.
312	Virginica.
312	iridescens.
312	Placunanomia claviculata.
312	pernoides.
312	foliata.
312	Anomia lampe.

CLASS **GASTEROPODA.**

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313	<i>Smaragdinella thecaphora.</i>	318	<i>Patella Mexicana.</i>
313	<i>Bulla nebulosa.</i>	318	<i>pediculus.</i>
313	<i>exarata.</i>	318	<i>discors.</i>
313	——.	318	<i>Nacella</i> ——.
313	<i>Quoyii.</i>	319	<i>Acmaea (Mazatlanica).</i>
313	<i>Adamsi.</i>	319	<i>patina.</i>
313	<i>Haminea cymbiformis.</i>	319	<i>persona.</i>
313	<i>Cylichna luticola.</i>	319	<i>scabra.</i>
313	<i>Tornatina carinata.</i>	319	<i>mesoleuca.</i>
313	<i>infrequens.</i>	319	<i>fascicularis.</i>
313	<i>Glandina Albersi.</i>	319	<i>vespertina.</i>
313	<i>turris.</i>	319	<i>livescens.</i>
314	<i>Bulimus Ziegleri.</i>	319	<i>mitella.</i>
314	<i>zebra.</i>	319	<i>Scutellina navicelloides.</i>
314	<i>Mexicanus.</i>	319	<i>Gadina pentagoniostoma.</i>
315	<i>Succinea cingulata.</i>	319	<i>Fissurella nigrocincta.</i>
315	<i>Melampus olivaceus.</i>	319	<i>alba.</i>
316	<i>Physa aurantia.</i>	319	<i>spongiosa.</i>
316	<i>elata.</i>	319	——.
316	<i>Planorbis tumens.</i>	319	<i>rugosa.</i>
316	<i>Siphonaria æquilirata.</i>	319	<i>virescens.</i>
316	<i>lecanium.</i>	319	<i>(Peruviana).</i>
316	——.	320	<i>Glyphis alta.</i>
316	<i>Ianthina striulata.</i>	320	<i>inæqualis.</i>
316	<i>decollata.</i>	320	<i>Rimula Mazatlanica.</i>
316	<i>Recluzia Rollandiana.</i>	320	<i>Phasianella compta.</i>
317	<i>Dentalium liratum.</i>	320	<i>perforata.</i>
317	<i>hyalinum.</i>	320	<i>Callopoma fluctuosum.</i>
317	<i>corrugatum.</i>	320	<i>Uvanilla olivacea.</i>
317	<i>pretiosum.</i>	320	<i>unguis.</i>
317	<i>Lophyrus articulatus.</i>	320	<i>inermis.</i>
317	<i>albolineatus.</i>	320	<i>Bankivia (varians).</i>
317	<i>striatosquamosus.</i>	320	<i>(Ziziphinus) versicolor.</i>
317	<i>lævigatus.</i>	321	<i>M'Andrææ.</i>
317	<i>Lepidopleurus Magdalen-</i>	321	——.
317	<i>clathratus.</i> [sis.	321	<i>Omphalius rugosus.</i>
317	<i>bullatus.</i>	321	<i>viridulus.</i>
317	<i>M'Andrææ.</i>	321	<i>ligulatus.</i>
317	<i>Beanii.</i>	321	<i>globulus.</i>
317	<i>sanguineus.</i>	321	<i>Vitrinella decussata.</i>
317	<i>Tonicia Forbesii.</i>	321	<i>monilis.</i>
317	<i>Chiton flavescens.</i> [tes.	321	<i>monilifera.</i>
318	<i>Acanthochites Arragoni-</i>	321	<i>lirulata.</i>

Page.		Page.	
321	<i>Vitrinella subquadrata</i> .	323	<i>Crepidula onyx</i> .
321	<i>bifilata</i> .	323	<i>nivea</i> .
321	<i>bifrontia</i> .	323	<i>unguiformis</i> .
321	<i>coronata</i> .	323	<i>dorsata</i> .
321	<i>annulata</i> .	323	(<i>dilatata</i>).
321	<i>cincta</i> .	324	<i>Hipponyx Grayanus</i> .
321	<i>carinulata</i> .	324	<i>serratus</i> .
321	<i>naticoides</i> .	324	<i>antiquatus</i> .
322	<i>planospirata</i> .	324	<i>planatus</i> .
322	<i>orbis</i> .	324	<i>barbatus</i> .
322	<i>Panamensis</i> .	324	<i>Capulus</i> ———.
322	<i>parva</i> .	324	<i>Aletes margaritarum</i> .
322	<i>perparva</i> .	324	<i>centiquadrus</i> .
322	<i>exigua</i> .	324	<i>Vermetus eburneus</i> .
322	? <i>Liotia carinata</i> .	324	<i>Bivonia contorta</i> .
322	<i>striulata</i> .	324	<i>albida</i> .
322	<i>C-B-Adamsi</i> .	324	—— (2 sp.)
322	——.	324	<i>Petalococonchus macro-</i>
322	? <i>Globulus tumens</i> .	324	<i>phragma</i> .
322	<i>Ethalia pyricalloso</i> .	324	<i>Elephantulum insculptum</i> .
322	<i>lirulata</i> .	324	<i>subspirale</i> .
322	<i>pallidula</i> .	324	<i>abnormale</i> .
322	<i>carinata</i> .	324	<i>obtusum</i> .
322	<i>amplectans</i> .	324	<i>liratocinctum</i> .
322	<i>Teinostoma amplexans</i> .	324	<i>heptagonum</i> .
322	<i>substriatum</i> .	324	<i>Anellum elongatum</i> .
322	<i>Nerita scabricosta</i> .	324	<i>subimpressum</i> .
322	<i>Bernhardi</i> .	324	<i>clathratum</i> .
322	<i>Neritina Californica</i> .	324	<i>quadratum</i> .
322	<i>cassiculum</i> .	324	<i>undatum</i> .
322	<i>picta</i> .	324	<i>firmatum</i> .
323	<i>Narica cryptophila</i> .	324	<i>Fartulum farcimen</i> .
323	<i>Crucibulum spinosum</i> .	324	<i>glabriforme</i> .
323	<i>Jewettii</i> .	324	<i>corrugulatum</i> .
323	<i>imbricatum</i> .	324	<i>dextroversum</i> .
323	<i>Calyptrea capacea</i> .	325	<i>reversum</i> .
323	<i>Galerus mammillaris</i> .	325	<i>teres</i> .
323	<i>conicus</i> .	325	<i>laeve</i> .
323	<i>subreflexus</i> .	325	<i>Turritella goniostoma</i> .
323	<i>Trochita spirata</i> .	325	<i>tigrina</i> .
323	<i>ventricosa</i> .	325	<i>Cerithium stercusmusca-</i>
323	<i>Crepidula adunca</i> .	325	<i>alboliratum</i> . [rum.
323	<i>aculeata</i> .	325	—— (2 sp.)
323	<i>incurva</i> .	325	<i>maculosum</i> .
323	<i>excavata</i> .	325	<i>famelicum</i> .

Page.		Page.	
325	<i>Cerithium uncinatum.</i>	327	<i>Alaba conica.</i>
325	<i>interruptum.</i>	328	<i>mutans.</i>
325	<i>Vertagus gemmatus.</i>	328	<i>laguncula.</i>
325	—.	328	— (2 sp.)
325	<i>Triphoris alternatus.</i>	328	<i>Planaxis nigritella.</i>
325	<i>inconspicuus.</i>	328	<i>Radius variabilis.</i>
325	? <i>infrequens.</i>	328	<i>Cypræa exanthema.</i>
325	<i>Cerithidea varicosa.</i>	328	<i>Luponia</i> (? <i>spurca</i>).
325	<i>Montagnei.</i>	328	<i>Aricia arabicula.</i>
326	<i>Ampullaria malleata.</i>	328	<i>Trivia subrostrata.</i>
326	<i>Truncatella</i> —.	328	<i>pulla.</i>
326	<i>Littorina fasciata.</i>	328	<i>sanguinea.</i>
326	<i>coronata.</i>	328	<i>Solandri.</i>
326	—.	328	<i>radians.</i>
326	<i>aspera.</i>	328	<i>pustulata.</i>
326	<i>conspersa.</i>	328	<i>Erato columbella.</i>
326	<i>Philippii.</i>	328	<i>scabriuscula.</i>
326	<i>Modulus catenulatus.</i>	329	<i>Cancellaria candida.</i>
326	<i>disculus.</i>	329	<i>obesa.</i>
326	—.	329	<i>urceolata.</i>
326	<i>Fossarus tuberosus.</i>	329	<i>ventricosa.</i>
326	<i>angulatus.</i>	329	<i>cassidiformis.</i>
326	<i>Isapio ovoidea.</i>	329	<i>solida.</i>
327	<i>maculosa.</i>	329	<i>goniostoma.</i>
327	—.	329	<i>Strombus galeatus.</i>
327	<i>Rissoina stricta.</i>	329	<i>granulatus.</i>
327	<i>Woodwardii.</i>	329	<i>gracilior.</i>
327	—.	329	<i>Subula luctuosa.</i>
327	<i>Barleeia lirata.</i>	330	(<i>Euryta</i>) <i>fulgurata.</i>
327	? <i>Alvania excurvata.</i>	330	<i>aciculata.</i>
327	<i>effusa.</i>	330	<i>Terebra specillata.</i>
327	<i>tumida.</i>	330	<i>robusta.</i>
327	—.	330	(<i>Myurella</i>) <i>armillata.</i>
327	<i>Cingula</i> —.	330	<i>tuberculosa.</i>
327	<i>Hydrobia ulvæ.</i>	330	<i>variegata.</i>
327	—.	330	<i>albocincta.</i>
327	<i>Jeffreysia bifasciata.</i>	330	<i>Hindsii.</i>
327	<i>Alderi.</i>	330	<i>subnodosa.</i>
327	<i>tumens.</i>	330	<i>rufocinerea.</i>
327	—.	330	<i>Pleurotoma tuberculifera.</i>
327	<i>Alaba supralirata.</i>	330	<i>bituberculifera.</i>
327	<i>violacea.</i>	330	<i>nobilis.</i>
327	<i>terebralis.</i>	330	<i>funiculata.</i>
327	<i>alabastrites.</i>	330	<i>maculosa.</i>
327	<i>scalata.</i>	330	<i>picta.</i>

Page.		Page.	
330	<i>Drillia luctuosa</i> .	334	<i>Parthenia exarata</i> .
330	<i>cerithoidea</i> .	334	<i>ziziphina</i> .
331	<i>monilifera</i> .	334	<i>Chrysallida ovata</i> .
331	<i>albovallosa</i> .	334	<i>nodosa</i> .
331	<i>albonodosa</i> .	334	<i>rotundata</i> .
331	<i>Hanleyi</i> .	334	<i>oblonga</i> .
331	—— (2 sp.)	334	<i>telescopium</i> .
331	<i>rudis</i> .	334	<i>Reigeni</i> .
331	<i>aterrima</i> .	334	<i>effusa</i> .
331	<i>zonulata</i> .	334	<i>fasciata</i> .
331	<i>incrassata</i> .	334	<i>ovulum</i> .
331	<i>Clathurella aurea</i> .	334	<i>convexa</i> .
331	(<i>Defrancia</i>) <i>rava</i> .	334	<i>Photis</i> .
332	<i>Cithara</i> ——.	334	<i>indentata</i> .
332	<i>Mangelia acuticostata</i> .	334	<i>clausiliformis</i> .
332	<i>Conus ferrugatus</i> .	334	<i>communis</i> .
332	<i>concinus</i> .	334	<i>Chemnitzia prolongata</i> .
332	<i>pusillus</i> .	334	<i>muricata</i> .
332	<i>puncticulatus</i> .	334	<i>gibbosa</i> .
332	——.	334	<i>gracillima</i> .
332	<i>scalaris</i> .	334	<i>undata</i> .
332	<i>nux</i> .	334	<i>flavescens</i> .
332	<i>gladiator</i> .	334	<i>terebralis</i> .
332	<i>purpurascens</i> .	334	<i>tenuilirata</i> .
333	<i>regalitatis</i> .	335	<i>unifasciata</i> .
333	<i>regularis</i> .	335	—— (4 sp.)
333	? <i>arcuatus</i> .	335	<i>C-B-A damsii</i> .
333	<i>princeps</i> .	335	<i>Panamensis</i> .
333	<i>Solarium (granulatum)</i> .	335	<i>similis</i> .
333	<i>Torinia variegata</i> .	335	<i>aculeus</i> .
333	? <i>granosa</i> .	335	<i>affinis</i> .
333	<i>Obeliscus (achates)</i> .	335	(<i>Dunkeria</i>) <i>paucilirata</i> .
333	? <i>conicus</i> .	335	<i>subangulata</i> .
333	<i>Odostomia subilirulata</i> .	335	<i>cancellata</i> .
333	<i>lamellata</i> .	335	<i>intermedia</i> .
333	<i>subsulcata</i> .	335	<i>Eulimella obsoleta</i> .
334	<i>vallata</i> .	335	—— (3 sp.)
334	<i>mamillata</i> .	335	? ——.
334	<i>tenuis</i> .	335	<i>Aclis fusiformis</i> .
334	——.	335	<i>tumens</i> .
334	(<i>Auriculina</i>) —— (3 sp.)	335	<i>Eulima hastata</i> .
334	<i>Parthenia scalariformis</i> .	335	—— (2 sp.)
334	<i>quinquecincta</i> .	335	<i>Leiostraca linearis</i> .
334	<i>lacunata</i> .	335	? <i>distorta</i> .
334	<i>armata</i> .	335	—— (2 sp.)

Page.		Page.	
335	<i>Leiostracea</i> ? <i>recta</i> .	339	<i>Voluta</i> <i>harpa</i> .
335	? <i>solitaria</i> .	339	<i>Marginella</i> <i>curta</i> .
335	? <i>iota</i> .	339	<i>polita</i> .
335	<i>Cerithiopsis</i> <i>tuberculoides</i> .	339	<i>margaritula</i> .
335	<i>cerea</i> .	339	<i>minor</i> .
335	<i>pupiformis</i> .	339	<i>Oliva</i> <i>intertincta</i> .
335	<i>Sorex</i> .	339	<i>Duclosi</i> .
335	<i>convexa</i> .	339	? <i>eburnea</i> .
335	<i>decussata</i> .	339	<i>porphyria</i> .
335	<i>assimilata</i> .	339	<i>angulata</i> .
336	<i>Scalaria</i> <i>indistincta</i> .	339	<i>Melchersi</i> .
336	<i>reflexa</i> .	339	<i>splendidula</i> .
336	<i>suprastrata</i> .	339	<i>venulata</i> .
336	<i>raricostata</i> .	339	<i>Cumingii</i> .
336	—— (2 sp.)	339	<i>Olivella</i> <i>dama</i> .
336	<i>hexagona</i> .	339	<i>intorta</i> .
336	<i>Cirsotrema</i> <i>funiculata</i> .	339	<i>p. aureocincta</i> .
336	<i>Natica</i> <i>maroceana</i> .	339	<i>anazora</i> .
336	<i>bifasciata</i> .	339	<i>zonalis</i> .
336	——.	340	<i>tergina</i> .
337	<i>Lunatia</i> <i>tenuilirata</i> .	340	<i>undatella</i> .
337	—— (3 sp.)	340	<i>inconspicua</i> .
337	<i>otis</i> .	340	<i>Aragonia</i> <i>testacea</i> .
337	<i>Neverita</i> <i>glauca</i> .	340	<i>Purpura</i> <i>emarginata</i> .
337	<i>Polinices</i> <i>uber</i> .	340	<i>triangularis</i> .
337	<i>intemerata</i> .	340	<i>triserialis</i> .
337	<i>unimaculata</i> .	340	<i>patula</i> .
337	<i>Sigaretus</i> <i>debilis</i> .	340	<i>columellaris</i> .
337	<i>Lamellaria</i> —— (2 sp.)	340	<i>muricata</i> .
337	<i>Ficula</i> <i>ventricosa</i> .	340	<i>biserialis</i> .
337	<i>Oniscia</i> <i>tuberculosa</i> .	340	<i>Cuma</i> <i>costata</i> .
337	<i>Cassis</i> <i>coarctata</i> .	340	<i>kiosquiformis</i> .
338	(<i>Argobuccinum</i>) <i>nodosum</i> .	340	<i>Rhizocheilus</i> <i>asper</i> .
338	<i>Ranella</i> <i>pectinata</i> .	340	<i>nux</i> .
338	——.	340	<i>Vitularia</i> <i>salebrosa</i> .
338	? <i>tuberculata</i> .	341	<i>Monoceros</i> <i>tuberculatum</i> .
338	<i>nana</i> .	341	(<i>cornigerum</i>).
338	<i>Turbinella</i> <i>cæstus</i> .	341	<i>Nitidella</i> ——.
338	<i>Lathirus</i> <i>armatus</i> .	341	<i>cribraria</i> .
338	<i>Californicus</i> .	341	<i>Columbella</i> <i>cervinetta</i> .
338	<i>ceratus</i> .	341	<i>nasuta</i> .
338	<i>Leucozonia</i> <i>cingulata</i> .	341	<i>major</i> .
338	<i>Fasciolaria</i> <i>princeps</i> .	341	<i>strombiformis</i> .
338	<i>Mitra</i> <i>lens</i> .	341	<i>fuscata</i> .
339	<i>Strigatella</i> <i>tristis</i> .	342	<i>Metula</i> —— (4 sp.)

Page.		Page.	
342	<i>Nassa tegula</i> .	343	<i>Anachis pygmæa</i> .
342	<i>crebristriata</i> .	344	<i>Strombina</i> ———.
342	—— (2 sp.)	344	<i>maculosa</i> .
342	<i>versicolor</i> .	344	<i>Pisania gemmata</i> .
342	<i>luteostoma</i> .	344	<i>sanguinolenta</i> .
342	? <i>acuta</i> .	344	<i>insignis</i> .
342	<i>gemmaulosa</i> .	344	? (<i>æquilirata</i>).
343	<i>Pyrula patula</i> .	344	<i>ringens</i> .
343	<i>Fusus lignarius</i> .	344	<i>Norðhia pristis</i> .
343	<i>ambustus</i> .	344	<i>Murex armatus</i> .
343	<i>tumens</i> .	345	<i>plicatus</i> .
343	<i>apertus</i> .	345	<i>recurv. lividus</i> .
343	—— (2 sp.)	345	(<i>Phyllonotus</i>) <i>imperialis</i> .
343	<i>pallidus</i> .	345	<i>nigritus</i> .
343	<i>Cominella</i> ———.	345	<i>brassica</i> .
343	<i>Anachis tæniata</i> .	345	<i>princeps</i> .
343	<i>nucleolus</i> .	345	<i>nitidus</i> .
343	<i>pallida</i> .	345	<i>bicolor</i> .
343	<i>nigrofusca</i> .	345	<i>regius</i> .
343	<i>serrata</i> .	345	(<i>Muricidea</i>) <i>radicata</i> .
343	<i>rufotincta</i> .	345	<i>fimbriata</i> .
343	<i>albonodosa</i> .	345	<i>pauzillus</i> .
343	—— (2 sp.)	345	——.
343	<i>Gaskoinei</i> .	345	<i>lapa</i> .
343	<i>costellata</i> .	345	? <i>er. indentata</i> .
343	<i>scalarina</i> .	345	<i>ðubia</i> .
343	<i>coronata</i> .	345	<i>Typhis fimbriatus</i> .
343	<i>fulva</i> .	345	<i>grandis</i> .

LIST OF PLATES.

Pl. Fig.		Pl. Fig.	
vi 1-4	<i>Arca grandis</i> .	viii 1	<i>Crepidula nivea</i> .
vii 1 a	<i>Cyrena Mexicana</i> .		<i>Calyptrea squama</i> .
	<i>C. Florida</i> Desh. non		<i>Lessonii</i> .
1 b	<i>altalis</i> . [Conr.]		<i>striolata</i> .
vii 2	<i>Avicula sterna</i> Gould.	viii 2	<i>unguiformis</i> .
vii 3	<i>Gadinia pentagonios-</i>	viii 3	<i>aculeata</i> .
	<i>toma</i> .		<i>Calyptrea echinus</i> .
vii 4	<i>Glyphis inæqualis</i> .		<i>histris</i> .
	<i>Fissurella pica</i> .		<i>Crepidula costata</i> Mke.
	<i>mus</i> .		non Sb.
vii 5	<i>Fissurella rugosa</i> .		<i>Californica</i> .
	<i>F. chlorotrema</i> .	viii 4	<i>Lophyrus articulatus</i> Sb.
	<i>humilis</i> . [Rv.]	viii 5	<i>Fissurella virescens</i> .
	<i>viminea</i> Mke. non		

Pl.	Fig.		Pl.	Fig.	
ix	1	Crucibulum imbricatum. <i>Patella scutellata.</i> <i>Calypeopsis rugosa.</i> <i>Dyspotæa dentata.</i> <i>Calyptræa extinctorium</i> Sby. non Lam. <i>rugosa.</i>			<i>Calyptræa tubifera.</i> <i>Calypeopsis auriculata.</i> <i>tenuis.</i> <i>hispida.</i> <i>maculata.</i> <i>quiriquina.</i> <i>Byronensis.</i> <i>rugosa.</i> <i>lignaria.</i>
ix	2	Crepidula indorsata. var. <i>bilobata.</i>			
ix	3	Crucibulum spinosum. <i>Patella Peziza.</i>	ix	4	Cæcum undatum.
			ix	5	Neritina cassiculum.

Conrad.—In the Advocate of Science and Annals of Natural History, vol. i, No. 2, September, 1834, Philadelphia. By T. A. CONRAD, are—

Page.	Name.	Locality.
58	Notes on Rangia Cyrenoides.	Mobile.

Rafinesque.—Conchology: a new Tubular Fresh-water Shell of the Alleghany Mountains: by C. S. RAFINESQUE. (From Atlantic Journal and Friend of Knowledge, No. 3, page 121. Philadelphia, 1832.)

Page.	Name.	Locality.
122	Psephides Raf. (n. g.)	
122	<i>parodoxa Raf.</i>	Sherman creek, Perry Co., Pa.
	(Wood-cut on page 121.)	

Rafinesque.—Odatelia: new genus of North American Fluviatile Bivalve Shells: by C. S. RAFINESQUE. (From the same, No. 4, 1832.)

Page.		Page.	
154	Odatelia Raf. (n. g.)		<i>Unio dehiscens</i> Say.
154	<i>radiata Raf.</i>		<i>Anodonta prelonga</i> Green.
	<i>Unio oriens</i> Lea.		

C. B. Adams.—(In Silliman's Journal, o. s., vol. xlv, No. 2. Jan.—March, 1843.)

Page.	Name.	Locality.
420	Periploma trapezoides Desh. <i>Thracia inequalis.</i>	Mobile bay.

Anonymous.—Mr. Lea on the Naiades, in the Transactions of the American Philosophical Society. (From Silliman's Journal, o. s., vol. xxii, No. 1, pp. 169–179. July, 1832.)

[No descriptions or synonymy are given, but a repetition of Mr. LEA's Synopsis.—W. G. B.]

Anonymous.—Observations on the Genus Unio, &c., by I. Lea, in the Transactions of the American Philosophical Society. (From Silliman's Journal, o. s., vol. xxvii, No. 2, pp. 371–377. 1835.)

[Extracts from the paper criticized are given, but no new descriptions or synonymy.—W. G. B.]

Anonymous.—Observations, &c., from the Transactions of the American Philosophical Society, vol. vi, No. 1. (From Silliman's Journal, o. s., vol. xxxv, p. 184. 1839.)

[This is a mere notice of one of Mr. LEA's papers, without criticisms or descriptions, with a list of species described.—W. G. B.]

Haldeman.—Correction to the article on Melanians (vol. xli, p. 21): by S. S. HALDEMAN. (From Silliman's Journal, o. s., vol. xlii. December, 1841.)

Page.		Page.	
216	<i>Melania undulata</i> Say.	216	<i>Trochlea</i> Hald. (n. g.)
216	<i>Nerita aurita</i> Müll. = n. g.		(<i>Planaria</i> Capt. Brown.)
	<i>Claviger</i> .	216	<i>alba</i> Brown.
216	<i>Claviger aurita</i> .	216	<i>nitens</i> Lea.
216	<i>tuberculosa</i> .		

Couthouy.—Notes on the following: by J. P. COUTHOUY. (From Silliman's Journal, o. s., vol. xxxvi, No. 2. April–July, 1839.)

Page.		Page.	
381	<i>Patelloidea</i> (Lottia).	381	<i>Patelloidea cærulea</i> .
381	<i>amœna</i> Say.		Europe.
381	<i>alveus</i> Conrad.	381	<i>pellucida</i> .
			Europe.

W. Whittemore.—(From the same.)

Page.	Name.	Locality.
381	<i>Planorbis armigerus</i> .	Cambridge.
381	<i>Cyclas similis</i> .	Cambridge.
381	<i>Physa heterostropha</i> .	Cambridge.

Agassiz and Gould.—Principles of Zoölogy, &c. Part I. Comparative Physiology: by LOUIS AGASSIZ and AUGUSTUS A. GOULD. Boston, 1848.

[The work being general in its character, no descriptions of shells occur. Among the diagrams, however, occur the following]:—

Fig.	Fig.
11 <i>Natica heros</i> (nerv. system.)	52 <i>Tebennophorus Carolinien-</i>
47 <i>Loligo illecebrosa</i> .	58 <i>Natica heros</i> (teeth). [sis.]

Anonymous.—On the Economical Uses of some species of Testacea. (From Silliman's Journal, o. s., vol. xxxii, No. 1, p. 53 No. 2, p. 235. 1837.)

[No descriptions are given, but numerous interesting remarks on the following]:—

Page.	Page.
56 <i>Mytilus margaritiferus</i> Linn.	70 <i>Pinna rotundata</i> Linn.?
68 <i>Mya margaritifera</i> Linn.	73 <i>Mytilus</i> ———.
235 <i>Murex</i> ———?	250 <i>Voluta gravis</i> Linn.
239 <i>tritonis</i> Linn.	250 <i>Cypræa moneta</i> Linn.
241 ———?	251 <i>Chiton fasciatus</i> Linn.
241 <i>Ostrea edulis</i> Linn.	251 <i>Murex despectus</i> Linn.
247 <i>scabra</i> Linn.	251 <i>Solen siliqua</i> Linn.
248 <i>Mya pictorum</i> Linn.	252 <i>Mytilus edulis</i> Linn.
248 <i>Turbo littoreus</i> Linn.	254 <i>Cardium edule</i> .
248 <i>Buccinum lapillus</i> Linn.	254 <i>Helix pomatia</i> .
248 <i>Pecten maximum</i> Penn.	256 <i>Unio</i> ———.
249 <i>opercularis</i> Penn.	256 <i>Chama gigas</i> Linn., &c.
249 <i>concentricum</i> .	

S. P. Hildreth.—Disease among Shell-fish (Naiades). (From same as last, p. 97.)

Mitchill.—Facts and Observations intended to illustrate the Natural and Economical History of the Eatable Clam of New York and its vicinity: by SAMUEL L. MITCHILL, M. D., &c. (From Silliman's Journal, o. s., vol. x, No. 2, p. 287. 1826.)

Venus mercenaria.

Mya arenaria.

Macra solidissima.

Arca barbata.

Gould.—Lamarek's Genera of Shells, with a Catalogue of Species: translated from the French by AUG. A. GOULD, M. D. Boston, 1833.

[No descriptions of species are given. Dr. GOULD adds a list of American species not included by Lamarek. These only are given below.—W. G. B.]

Page.		Page.	
11	<i>Pholas oblongata.</i>	21	<i>Tellina iris.</i>
11	<i>truncata.</i>	21	<i>tenera.</i>
11	<i>cuneiformis.</i>	21	<i>intastriata.</i>
11	<i>pusillus.</i>	21	<i>lateralis.</i>
12	<i>Solen costatus.</i>	21	<i>decora.</i>
12	<i>centralis.</i>	21	<i>flexuosa.</i>
12	<i>viridis.</i>	21	<i>Tellinides rosea.</i>
13	<i>Mya acuta.</i>	25	<i>Cyclas rhomboidea.</i>
13	<i>mercenaria.</i>	25	<i>partumeia.</i>
13	<i>hyalina.</i>	27	<i>Cytherea occulta.</i>
13	<i>Anatina papyratia.</i>	28	<i>Venus castanea.</i>
13	<i>Leana.</i>	28	<i>inequalis.</i>
14	<i>Lutraria canaliculata.</i>	28	<i>elevata.</i>
15	<i>Macra similis.</i>	28	<i>præparca.</i>
15	<i>lateralis.</i>	28	<i>grata.</i>
15	<i>oblonga.</i>	28	<i>notata.</i>
15	<i>solidissima.</i>	29	<i>Venericardia tridentata.</i>
15	<i>arctata.</i>	30	<i>Cardium Mortoni.</i>
15	<i>tellinoides.</i>	30	<i>pinnulatum.</i>
15	<i>nucleus.</i>	33	<i>Arca staminea.</i>
15	<i>Erycina striata.</i>	33	<i>lienosa.</i>
16	<i>Solenomya velum.</i>	33	<i>ponderosa.</i>
17	<i>Corbula contracta.</i>	33	<i>pexata.</i>
17	<i>Pandora trilineata.</i>	33	<i>incongrua.</i>
21	<i>Tellina alternata.</i>	33	<i>transversa.</i>
21	<i>punicea.</i>	34	<i>Nucula limatula.</i>
21	<i>polita.</i>	34	<i>proxima.</i>

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34	<i>Nucula nucleus.</i>
34	<i>recurva.</i>
37	<i>Unio ridibundus.</i>
37	<i>monodonta.</i>
37	<i>nndulatus.</i>
37	<i>abruptus.</i>
37	<i>phaseolus.</i>
37	<i>tetralasmus.</i>
37	<i>dehiscens.</i>
37	<i>interruptus.</i>
37	<i>globulus.</i>
37	<i>declivis.</i>
37	<i>lapillus.</i>
37	<i>camptodon.</i>
37	<i>lugubris.</i>
37	<i>radiatus.</i>
37	<i>ovatus.</i>
37	<i>cariosus.</i>
37	<i>nasutus.</i>
37	<i>cylindricus.</i>
37	<i>subtentus.</i>
37	<i>plicatus.</i>
37	<i>rectus.</i>
37	<i>torsus.</i>
37	<i>mytiloides.</i>
37	<i>metanever.</i>
37	<i>scalenus.</i>
37	<i>cornutus.</i>
37	<i>verrucosus.</i>
37	<i>tuberculatus.</i>
37	<i>gibbosus.</i>
37	<i>cuneatus.</i>
37	<i>ventricosus.</i>
37	<i>siliquoides.</i>
37	<i>triangularis.</i>
37	<i>parvus.</i>
37	<i>Æsopus.</i>
37	<i>calceolus.</i>
37	<i>lanceolatus.</i>
37	<i>donaciformis.</i>
37	<i>ellipsis.</i>
37	<i>irroratus.</i>
37	<i>lachrymosus.</i>
37	<i>ater.</i>
37	<i>rubiginosus.</i>

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37	<i>Unio heterodon.</i>
37	<i>sulcatus.</i>
37	<i>planulatus.</i>
37	<i>circulus.</i>
37	<i>multiradiatus.</i>
37	<i>occidens.</i>
37	<i>securis.</i>
37	<i>iris.</i>
37	<i>zig-zag.</i>
37	<i>patulus.</i>
38	<i>Symphynota lævissima.</i>
38	<i>bialata.</i>
38	<i>alata.</i>
38	<i>complanata.</i>
38	<i>compressa.</i>
38	<i>gracilis.</i>
38	<i>tenuissima.</i>
38	<i>ochracea.</i>
38	<i>cygnea.</i>
38	<i>Alasmodonta undulata.</i>
38	<i>marginata.</i>
38	<i>ambigua.</i>
38	<i>confragosa.</i>
43	<i>Modiola Americana.</i>
43	<i>castanea.</i>
43	<i>Mytilus hamatus.</i>
43	<i>lateralis.</i>
43	<i>cubitus.</i>
43	<i>leucophæatus.</i>
49	<i>Pecten concentricus.</i>
49	<i>Pealii.</i>
49	<i>ornatus.</i>
49	<i>dislocatus.</i>
51	<i>Ostrea semicylindrica.</i>
52	<i>Placuna pertusa.</i>
52	<i>quadrifasciata.</i>
58	<i>Patella amœna.</i>
58	<i>alternata.</i>
60	<i>Crepidula depressa</i>
60	<i>glauc.</i>
60	<i>plana.</i>
60	<i>intorta.</i>
60	<i>convexa.</i>
60	<i>Calyptræa striata.</i>
60	<i>Ancylus rivularis.</i>

Page.

- 61 *Bullæana solitaria*.
 63 *Helix albolabris*.
 63 *hirsuta*.
 63 *perspectiva*.
 63 *lineata*.
 63 *thyroidus*.
 63 *minuta*.
 63 *labyrinthica*.
 63 *multilineata*.
 63 *appressa*.
 63 *palliata*.
 63 *inflecta*.
 63 *clausa*.
 63 *obstricta*.
 63 *elevata*.
 63 *interna*.
 63 *chersina*.
 63 *gularis*.
 63 *ligera*.
 63 *solitaria*.
 63 *jejuna*.
 63 *concava*.
 63 *dealbata*.
 63 *profunda*.
 63 *alternata*.
 63 *irrorata*.
 63 *inornata*.
 63 *indentata*.
 63 *fallax*.
 63 *egena*.
 63 *tridentata*.
 63 *monodon*.
 64 *Polygyra auriculata*.
 64 *avara*.
 64 *septemvolva*.
 64 *plicata*.
 64 *Helicina major*.
 64 *orbiculata*.
 64 *occulta*.
 65 *Pupa armifera*.
 65 *corticaria*.
 65 *rupicola*.
 65 *contracta*.
 65 *exigua*.
 65 *fallax*.

Page.

- 65 *Pupa ovata*.
 65 *pentodon*.
 66 *Bulimus multilatus*.
 66 *multilineatus*.
 66 *Achatina solida*.
 66 *Succinea ovalis*.
 66 *campestris*.
 67 *Cyclostoma lapidaria*.
 67 *marginata*.
 67 *dentata*.
 68 *Planorbis armigerus*.
 68 *trivolvus*.
 68 *bicarinatus*.
 68 *parvus*.
 68 *parallelus*.
 68 *exacuus*.
 68 *campanulatus*.
 68 *glabratus*.
 68 *Physa gyrina*.
 68 *elongata*.
 68 *heterostropha*.
 68 *ancillaria*.
 69 *Lymnæa columella*.
 69 *elongata*.
 69 *catascopium*.
 69 *reflexa*.
 69 *appressa*.
 69 *elodes*.
 69 *desidiosa*.
 69 *macrostoma*.
 69 *emarginata*.
 69 *humilis*.
 69 *modicella*.
 69 *obrussa*.
 69 *pinguis*.
 69 *galbana*.
 69 *Melania nupera*.
 69 *depygis*.
 69 *Virginica*.
 69 *semicarinata*.
 69 *laqueata*.
 69 *canaliculata*.
 69 *elevata*.
 69 *conica*.
 69 *catenaria*.

Page.		Page.	
69	<i>Melania multilineata.</i>	78	<i>Turbo canaliculatus.</i>
69	<i>simplex.</i>	78	<i>palliatu8.</i>
69	<i>proxima.</i>	78	<i>vestita.</i>
70	<i>Pirena scalariformis.</i>	78	<i>obligatus.</i>
70	<i>Valvata tricarinata.</i>	79	<i>Turritella concava</i>
70	<i>Paludina decisa.</i>	79	<i>æqualis.</i>
70	<i>vivipara.</i>	79	<i>alternata.</i>
70	<i>subpurpurea.</i>	79	<i>reticulata.</i>
70	<i>intertexta.</i>	79	<i>impressa.</i>
70	<i>ponderosa.</i>	79	<i>bisuturalis.</i>
70	<i>integra.</i>	80	<i>Cerithium muscarum.</i>
70	<i>porata.</i>	80	<i>septemstriatum.</i>
70	<i>limosa.</i>	80	<i>ferrugineum.</i>
70	<i>decipiens.</i>	80	<i>dislocatum.</i>
70	<i>lustrica.</i>	81	<i>Fusus corneus.</i>
70	<i>grana.</i>	81	<i>cinereus.</i>
70	<i>subglobosa.</i>	81	<i>bicolor.</i>
73	<i>Natica triseriata.</i>	81	<i>decemcostatus.</i>
73	<i>duplicata.</i>	81	<i>fluviatilis.</i>
73	<i>rugosa.</i>	83	<i>Ranella caudata.</i>
73	<i>heros.</i>	90	<i>Buccinum ornatum.</i>
73	<i>pusilla.</i>	90	<i>armigerum.</i>
73	<i>Sigaretus perspectivus.</i>	90	<i>bezoar.</i>
73	<i>maculatus.</i>	90	(<i>Nassa</i>) <i>vibex.</i>
75	<i>Pyramidella dolabrata.</i>	90	<i>trivittata.</i>
75	<i>plicata.</i>	90	<i>obsoleta.</i>
75	<i>corrugata.</i>	90	<i>acuta.</i>
75	<i>maculosa.</i>	90	<i>unicincta.</i>
75	<i>Scalaria multistriata.</i>	90	<i>alba.</i>
75	<i>lineata.</i>	90	<i>lunata.</i>
75	<i>clathrulus.</i>	92	<i>Columbella labiosa.</i>
76	<i>Delphinula laxa.</i>	92	<i>avara.</i>
78	<i>Turbo irroratus.</i>	97	<i>Oliva mutica.</i>

Storer.—A translation of Kiener's "Species General," &c. into English: by D. HUMPHREYS STORER, M. D. No. 1. Boston, 1837.

[*Buccinum*, *Dolium*, *Tornatella*, *Pyramidella*, *Thracia*, and *Harpa* were published. A list of additional American species of *Buccinum* and *Nassa* is given, without descriptions, on page 100.—W. G. B.]

Buccinum ornatum Say.

Nassa vibex Say.

trivittata Say.

acuta Say.

Nassa unicincta Say.

alba Say.

lunata Say.

Ruschenberger.—Natural History; Conchology, vol. i, book 4: by Dr. W. S. W. RUSCHENBERGER. Philad'a, 1850.

[No descriptions are given.—W. G. B.]

Warren.—The Conchologist: by JOHN WARREN. With 16 plates. Boston, 1834.

[No descriptions or localities are given.—W. G. B.]

Poe.—The Conchologist's First Book, &c.; arranged expressly for the use of Schools: by EDGAR A. POE. Second edition, with 12 plates. Philadelphia, 1840.

[No descriptions or localities of species are given. The generic descriptions appear to be copied from WYATT'S "Conchology."—W. G. B.]

Wyatt.—A Manual of Conchology, according to the System laid down by Lamarck, &c.: by THOMAS WYATT, M. A. With 36 plates. New York, 1838.

[Descriptions of but few species are given, and these without locality.—W. G. B.]

Rafinesque.—Discoveries in Natural History in the Western States: by C. S. RAFINESQUE. (From Amer. Monthly Magazine and Critical Review, vol. iii, p. 354 New York. September, 1818.)

Page.		Page.	
355	<i>Potamilus latissimus Raf.</i>	355	<i>Potamilus gibbosus Raf.</i>
355	<i>violacinus Raf.</i>	355	<i>verrucosus Raf.</i>
355	<i>niger Raf.</i>	355	<i>tubercularis Raf.</i>
355	<i>fasciolaris Raf.</i>	355	<i>nodosus Raf.</i>
355	<i>phaedrus Raf.</i>	355	<i>pusillus Raf.</i>
355	<i>ellipticus Raf.</i>	355	<i>subrotundus Raf.</i>
355	<i>zonalis Raf.</i>	355	<i>obovalis Raf.</i>
355	<i>obliquatus Raf.</i>	355	<i>Pleurocera retusa Raf.</i>
355	<i>retusus Raf.</i>	355	<i>saxatilis Raf.</i>
355	<i>truncatus Raf.</i>	355	<i>fasciata Raf.</i>
355	<i>triqueter Raf.</i>	355	<i>coneola Raf.</i>
355	<i>alatus Raf.</i>	355	<i>angulata Raf.</i>
355	<i>nervosus Raf.</i>	355	<i>turricula Raf.</i>
355	<i>fasciatus Raf.</i>	355	<i>Ambloxia eburnea Raf.</i>
355	<i>auratus Raf.</i>	355	<i>ventricosa Raf.</i>

Rafinesque.—Further Account of Discoveries in Natural History in the Western States: by C. S. RAFINESQUE. (From the same, vol. iv, p. 38. November, 1818.)

Page.	Name.	Locality.
42	<i>Ellipstoma Raf.</i> (n. g.)	
42	<i>gibbosa Raf.</i>	Ohio and Wabash river.
42	<i>zonalis Raf.</i>	Kentucky river.
42	<i>rugosa Raf.</i>	Ohio river.

Rafinesque.—General Account of the Discoveries made in the Zoology of the Western States: by C. S. RAFINESQUE. (From the same, vol. iv, p. 106. December, 1818.)

[No descriptions are given. The following new genera are mentioned by name—W. G. B.]:

Page.		Page.	
107	<i>Mesomphix Raf.</i>	107	<i>Ellipstoma Raf.</i>
107	<i>Trophodon Raf.</i>	107	<i>Euryostoma Raf.</i>
107	<i>Triodopsis Raf.</i>	107	<i>Notrema Raf.</i>
107	<i>Stenostoma Raf.</i>	107	<i>Ambloxis Raf.</i>
107	<i>Toxostoma Raf.</i>	107	<i>Patamila Raf.</i>
107	<i>Zolotrema Raf.</i>	107	<i>Truncilla Raf.</i>
107	<i>Aplodon Raf.</i>	107	<i>Stenodon Raf.</i>
107	<i>Lymnula Raf.</i>	107	<i>Pleuroxis Raf.</i>
107	<i>Pleurotoma Raf.</i>		

Rafinesque.—Description of a new genus of Fluvatile Bivalve Shell of the family Brachiopods, *Notrema fissurella*, &c.: by C. S. RAFINESQUE. (From the same, p. 356. March, 1819.)

Page.	Name.	Locality.
356	<i>Notrema fissurella Raf.</i>	Ohio river.

Adams.—Catalogue of the Genera and Species of Recent Shells in the Collection of C. B. ADAMS, A. M. Middlebury, 1847.

[No descriptions are given. As the "North American" species are not limited to the region to which my extracts are confined, I do not insert them here.—W. G. B.]

Page.		Page.	
19	<i>Cerithium terebrale</i> Ad. preoc. =	21	<i>Natica canaliculata</i> Gld. preoc.
	<i>C. terrebellum.</i>		= <i>N. Gouldii</i> Adams.

Page.		Page.	
23	<i>Cyclostoma obscurum</i> Gr. preoc. = <i>C. Grayanum</i> Adams.	32	<i>Helix cellaria</i> . <i>H. glaphyra</i> .
29	<i>Thetis</i> preoc. = <i>Gouldia</i> .	32	<i>Physa hypnorum</i> .
32	<i>Helix arbustorum</i> .	32	<i>Paludina vivipara</i> .
32	<i>aspersa</i> .	32	<i>Limnæa minuta</i> .
32	<i>hortensis</i> .	32	<i>desidiosa</i> .
32	<i>virgata</i> .	32	<i>Helix lucida</i> .
	Notes on—	32	<i>arborea</i> .
32	<i>Helix pulchella</i> .		

Kirtland.—Remarks on the Sexes and Habits of some of the Acephalous Bivalve Mollusca: by JARED P. KIRTLAND, M. D. (From Proc. Am. Assoc. Adv. Sci., vol. v, p. 85-91. Washington, 1851.)

[Notes on sexual differences, byssus, locality, rarity, &c., of numerous species.—W. G. B.]

Akerly.—Economical History of the Fishes sold in the Markets of the city of New York: by Dr. S. AKERLY. (From Amer. Monthly Magazine and Critical Review, vol. ii. New York. Feb. 1818.)

Page.		Page.	
296	Notes on <i>Mya arenaria</i> .	296	Notes on <i>Ostrea edulis</i> .
296	<i>Venus mercenaria</i> .		(Also on page 475.)

Kennicott.—Catalogue of Animals observed in Cook County, Illinois: by ROBERT KENNICOTT. (From Trans. Illinois State Agricultural Soc., vol. i, p. 577. Mollusca, p. 595. Springfield, Ill., 1855.)

[No descriptions are given.—W. G. B.]

Page.		Page.	
595	<i>Unio alatus</i> Say.	595	<i>Unio parvus</i> Barnes.
595	<i>costatus</i> Raf.	595	<i>Alasmodonta calceolata</i>
595	<i>iris</i> Lea.	595	<i>Cyclas similis</i> Say. [<i>Lea</i> .
595	<i>bullatus</i> Raf.	595	<i>Helix monodon</i> Rack.
595	<i>fragilis</i> Raf.	595	<i>profunda</i> .
595	<i>luteolus</i> Lam.	595	<i>Planorbis campanulatus</i>
595	<i>dilatatus</i> Raf.	595	<i>trivolvus</i> Say. [<i>Say</i> .
595	<i>coccineus</i> Hldr.	595	<i>Limnea reflexa</i> Say.
595	<i>cardium</i> Raf.	595	<i>fragilis</i> Linn.

Page.		Page.	
595	<i>Limnea emarginata</i> Say.	595	<i>Melania carinata</i> .
595	<i>Physa heterostropha</i> Say.	595	<i>semicarinata</i> Say.
595	<i>Paludina decisa</i> Say.		

Conrad.—Shells from Coast of Lower California and Peru: by T. A. CONRAD. (From Journ. Acad. Nat. Sci. Phila., N. S., vol. i, pt. 4, p. 278 Jan. 1850. Vide also, *ante*.)

Page.	Plate.	Fig.	Name.
278			<i>Solecardia Conrad</i> (n. g.)
279	xxxix	1	<i>eburnea Conrad</i> .
279	xxxix	2	<i>Petricola sinuosa Conrad</i> .
279			<i>Pholadopsis Conrad</i> (n. g.)
279	xxxix	3	<i>pectinata Conrad</i> .
279	xxxix	4	<i>Parapholas bisulcata Conrad</i> .
279	xxxix	5	<i>Penitella Wilsoni Conrad</i> .
280	xxxix	6	<i>Triton perforatus Conrad</i> .
280	xxxix	7	<i>Oliva propatula Conrad</i> .

Leidy.—On the Situation of the Olfactory Sense in the Terrestrial Tribe of Gasteropodous Mollusca: by Dr. J. LEIDY. (In Journ. Acad. Nat. Sci. Phila., N. S., vol. i, pt. 1, p. 49. Dec. 1847.)

Rafinesque.—Podrome de 70 nouveaux genres d'Animaux découverts dans l'intérieur des Etats Unis d'Amérique, durant l'année 1818: par C. S. RAFINESQUE, Prof., etc. (Journal de Physique, de Chemie, d'Histoire Naturelle, et des Arts, etc.: par M. H-M, Ducrotay de Blainville. Tome 88, p. 417. Paris, Juin, 1819.)

Page.		Page.	
423	<i>Pleurocera Raf.</i>	424	<i>Omphemis lacustris Raf.</i>
423	<i>Oxytrema Raf.</i>	424	<i>plaioxis Raf.</i>
423	<i>Campeloma Raf.</i>	424	<i>Lomastoma Raf.</i>
423	<i>crassula Raf.</i> Ohio river.	424	<i>terebrina Raf.</i>
423	<i>Omphaliscula Raf.</i>	424	<i>Eutrema Raf.</i>
423	<i>Espiphylla Raf.</i>	424	<i>terebroides Raf.</i>
424	<i>Leptoxis Raf.</i>	424	<i>Ellipstoma Raf.</i>
424	<i>Cyclemis Raf.</i>	424	<i>gibbosa Raf.</i>
424	<i>minutissima Raf.</i>	424	<i>vittata Raf.</i>
424	<i>olivacea Raf.</i>	424	<i>zonalis Raf.</i>
424	<i>Omphemis Raf.</i>	424	<i>marginata Raf.</i>

Page.		Page.	
425	Odotropis Raf.	425	Toxotrema Raf.
425	Mesomphix Raf.	425	globularis Raf.
425	Triodopsis Raf.	425	complanata Raf.
425	Xolotrema Raf.	425	Stenotrema Raf.
425	lunula Raf.	425	convexa Raf.
425	triodopsis Raf.	425	Aplodon Raf.
425	Chimotrema Raf.	425	nodosum Raf.
425	planiuscula Raf.		

[Descriptions of fossil univalves here follow.—W. G. B.]

Subgenera of Unio —		Subgenera of Unio —	
425	Proptera Raf.	426	Obovaria Raf.
426	alata Raf.	426	obovalis Raf.
425	phaiedra Raf.	426	subrotunda Raf.
426	pallida Raf.	427	syntoxis Raf.
425	Eurynea Raf.	427	retusa Raf.
425	latissima Raf.	427	crassa Raf.
426	dilatata Raf.	427	torsa Raf.
425	solenoides Raf.	427	Truncilla Raf.
426	Elliptio Raf.	427	triquetra Raf.
426	Plagiola Raf.	427	truncata Raf.
426	verrucosa Raf.	427	Amblema Raf.
426	fasciolaris Raf.	427	ovalis Raf.
426	leptodon Raf.	427	Pleurorema Raf.
426	depressa Raf.	427	mytiloides Raf.
426	flava Raf.	427	conica Raf.
426	obliquata Raf.		

[Descriptions of fossil bivalves.—W. G. B.]

428 **Noletrema patelloides** Raf. Ohio.

[Other fossil shells.]

Girard.—Catalogue of Recent Shells and other Mollusca found in the District of Columbia, prepared from specimens in the Cabinet of Dr. E. Foreman: by CHARLES GIRARD. (Proceedings of National Institute, Washington, vol. i, No. 2. March, 1856.)

[Bryozoa are omitted.—W. G. B.]

Page.		Page.	
79	Cyclas similis Say.	79	Pisidium dubium Say.
79	rhomboidea Say.	79	variabile Prime.
79	partumeia Say.	79	Unio cariosus Say.
79	solidula Prime.	79	ochraceus Say.

Page.

- 79 *Unio nasutus* Say.
 79 *Fisherianus* Lea.
 79 *complanatus* Sol.
 79 *radiatus* Lam.
 79 *heterodon* Lea.
 79 *Alasmodonta marginata* Say.
 79 *undulata* Say.
 79 *Anodonta cataracta* Say.
 79 *implicata* Say.
 79 *areolata* Swains.
 80 *Tebennophorus Carolinensis* Binn.
 80 *Limax agrestis* Müll.
 80 *Helix albolabris* Say.
 80 *alternata* Say.
 80 *arborea* Say.
 80 *chersina* Say.
 80 *concava* Say.
 80 *electrina* Gould.
 80 *fraterna* Say.
 80 *fuliginosa* Grif.
 80 *gularis* Say.
 80 *hirsuta* Say.
 80 *inflecta* Say.
 80 *indentata* Say.
 80 *labyrinthica* Say.
 80 *ligera* Say.
 80 *lineata* Say.
 80 *pulchella* Gould.
 80 *minuscula* Binn.
 80 *suppressa* Say.
 80 *thyroidus* Say.
 80 *tridentata* Say.
 81 *Succinea avara* Say.
 81 *campestris* Say.
 81 *ovalis* Gould.
 81 *obliqua* Say.
 81 *Bulimus fallax* Gould.
 81 *lubricus* Gould.
 81 *Pupa armifera* Say.

Page.

- 81 *Pupa contracta* Say.
 81 *pentodon* Binn.
 81 *procera* Gould.
 81 *rupicola* Say.
 81 *Vertigo milium* Gould.
 81 *ovata* Say.
 81 *Carychium exiguum* Gould.
 81 *Aucylus fuscus* Adams.
 81 *rivularis* Say.
 81 *tardus* Say.
 81 *Lymnea columella* Say.
 81 *desidiosa* Say.
 81 *caperata* Say.
 81 *macrostoma* Say.
 81 *modicellus* Say.
 81 *humilis* Say.
 82 *Physa ancillaria* Say.
 82 *elongata* Say.
 82 *fragilis* Migh. & Ad.
 82 *heterostrophia* Say.
 82 *Planorbis bicarinatus* Say.
 82 *deflectus* Say.
 82 *exacutus* Gould.
 82 *hirsutus* Gould.
 82 *parvus* Say.
 82 *trivolvus* Say.
 82 *Melania multilineata* Say.
 82 *virginica* Say.
 82 *Anculosa carinata* Say.
 82 *monodonta* Say.
 82 *Paludina decisa* Say.
 82 *subcarinata* Say.
 82 *Amnicola lapidaria* Say.
 82 *decisa* Hald.
 82 *porata* Say.
 82 — (n. s.)
 82 — (n. s.)
 82 *Valvata pupoidea* Gould.
 82 *tricarinata* Say.

Carrier.—List of Shells collected in the Grand River (Mich.) Valley: by A. O. CURRIER.

[No date; said to have been published in 1859. No descriptions are given.—W. G. B.]

Unio alatus Say.
asperrimus Lea.
crassus Say.
cornutus Barnes.
coccineus Hildreth.
elegans Lea.
ellipsis Lea.
gibbosus Barnes.
gracilis Barnes.
iris Lea.
lævissimus Lea.
luteolus Lam.
Novi-Eboraci Lea.
occidens Lea.
plicatus Barnes.
præsinus Conrad.
rectus Lam.
rubiginosa Lea.
spatulata Lea.
subovatus Say.
tenuisinus Lea.
trigonus Lea.
triangularis Barnes.
verrucosus Barnes.
ventricosus Barnes.
Alasmodon deltoides Lea.
rugosa Barnes.
marginata Say.
Anodon Benedictii Lea.
Buchanensis Lea.
edentula Say.
Ferussaciana Lea.
Footiana Lea.
ovata Lea.
pallida Anthony.
Pepiniana Lea.
plana Lea.
Shæfforiana Lea.
salmonia Lea.
Cyclas similis Say.

Cyclas sulcata Lam.
striatina Lam.
occidentalis Prime.
partumeia Say.
distorta Prime.
Pisidium compressum Prime.
additum Hald.
ventricosum Prime.
dubium Say.
Paludina decisa Say.
 ———?
integra Say.
isogona Say.
rufa Hald.
Amnicola grana Say.
pallida Hald.
lapidaria Say.
Valvata tricarinata Say.
Malania neglecta Anthony.
pulchella Anthony.
niagerensis Lea.
livescens Menka.
Ancylus fusca Adams.
parallelus Hald.
Lymnea appressa Say.
umbrosa Say.
columella Say.
desidiosa Say.
modicellus? Gould.
gracilis Jay.
elodes Say.
reflexa Hald.
umbilicata Adams.
pallida Adams.
Physa Hildrethiana Lea.
heterostrophæ Say.
elongata Say.
vinosa Gould.
Planorbis armigera Say.
bicarinatus Say.

- | | |
|--|---|
| <p>Planorbis campanulatus <i>Say.</i>
 <i>executus Say.</i>
 <i>parvus Say.</i>
 <i>trivolvus Say.</i>
 Helix albolabris <i>Say.</i>
 <i>alternata Say.</i>
 <i>arboria Say.</i>
 <i>chersina Say.</i>
 <i>concava Say.</i>
 <i>clausa Say.</i>
 <i>electrina Say.</i>
 <i>fallax Say.</i>
 <i>fraterna Say.</i>
 <i>fuliginosa Binney.</i>
 <i>hirsuta Say.</i>
 <i>hydrophila Ingalls.</i>
 <i>indentata Say.</i>
 <i>ligera Say.</i>
 <i>labyrinthica Say.</i>
 <i>limatula Ward.</i>
 <i>lineata Say.</i>
 <i>minuscula Binney</i></p> | <p>Helix monodon <i>Rackett.</i>
 <i>multilineata Say.</i>
 <i>palliat a Say.</i>
 <i>perspectiva Say.</i>
 <i>profunda.</i>
 <i>solitaria Say.</i>
 <i>striatella Anthony.</i>
 <i>thyroides Say.</i>
 <i>tridentata Say.</i>
 Succinea obliqua <i>Say.</i>
 <i>avara Say.</i>
 <i>ovalis Gould.</i>
 <i>vermetus Say.</i>
 Bulimus fallax <i>Gould.</i>
 Pupa contracta <i>Say.</i>
 <i>armifera Say.</i>
 <i>pentodon Say.</i>
 Carychium exiguum <i>Say.</i>
 Vertigo simplex <i>Gould.</i>
 <i>Gouldii Binney.</i>
 Achatina lubrica <i>Müller.</i></p> |
|--|---|

Hildreth.—Catalogue of Fresh-water Shells found near Marietta, Ohio: by S. P. HILDRETH.

[No date, paging, or descriptions.—W. G. B.]

- | | |
|--|---|
| <p>Alasmodonta complanata <i>Bar.</i>
 Unio plicatus <i>Say.</i>
 <i>ellipticus Barnes.</i>
 <i>siliquoides Barnes.</i>
 <i>andontoides Lea.</i>
 <i>rectus Lam.</i>
 <i>ovatus Say.</i>
 <i>alatus Say.</i>
 Alasmodonta rugosa <i>Barnes.</i>
 Cyclas similis <i>Say.</i>
 Unio heros <i>Say.</i>
 <i>tuberculatus Barnes.</i>
 <i>verrucosus Barnes.</i>
 <i>pustulatus Lea.</i>
 <i>pustulosus Lea.</i>
 <i>metanevrus Raf.</i>
 <i>cornutus Barnes.</i>
 <i>rugosus Barnes.</i>
 <i>perplexus Lea.</i></p> | <p>Unio irroratus <i>Lea.</i>
 <i>cylindricus Say.</i>
 <i>torsus Raf.</i>
 <i>pyramidatus Lea.</i>
 <i>undatus Barnes.</i>
 <i>mytiloides Raf.</i>
 <i>trigonus Lea.</i>
 <i>scalenius Raf.</i>
 <i>cuneatus Barnes.</i>
 <i>niger Raf.</i>
 <i>phaseolus Hildreth.</i>
 <i>ellipsis Lea.</i>
 <i>foliatus Hildreth.</i>
 <i>securis Lea.</i>
 <i>abruptus Say.</i>
 <i>gibbosus Barnes.</i>
 <i>elegans Lea.</i>
 <i>multiradiatus Lea.</i>
 <i>planus Barnes.</i></p> |
|--|---|

Unio monodontus Barnes.
occidens Lea.
gracilis Barnes.
lævissimus Lea.

Alasmodonta marginata Say.

Anodonta Ohioensis Say.
areola Say.
undulata Say.
cataracta Say.

Unio compressus Lea.
ventricosus Barnes.
plicatus Say.
siliquoidens Barnes.
perplexus Lea.
phaseolus Hildreth.
sulcatus Lea.

Unio ridibundus Say.
politus Say.
subrotundus Raf.
parvus Barnes.
zig-zag Lea.
triangularis Barnes.
dehiscens Say.
pilens Lea.
iris Lea.
parvus Barnes.
glans Lea.
lapillus Say.
calceolus Lea.
plicatus.
alatus.

Conrad.—Observations on the Tertiary and more Recent Formations of the Southern States: by T. A. CONRAD. (From Journ. Acad. Nat. Sci. Phila., o. s., vol. vii, pt. 1. 1834.)

The following pliocene species are said to be found recent on the coast:—

Page.		Page.	
124	<i>Arca transversa</i> .	125	<i>Lucina divaricata</i> Lam.
124	<i>Cytherea Sayana</i> .	125	<i>Crepidula convexa</i> Say.
	<i>C. convexa</i> Say.	125	<i>glauca</i> Say.
124	<i>Pholas costata</i> Lam.	125	<i>plana</i> Say.
124	<i>Ostrea Virginiana</i> Gmel.	125	<i>Fusus cinereus</i> Say.
124	<i>Solen ensis</i> Linn.	125	<i>Nassa trivittata</i> Say.
124	<i>Saxicava rugosa</i> Lam.	125	<i>lunata</i> Say.
124	<i>Venus mercenaria</i> Lam.	125	<i>Natica duplicata</i> Say.
124	<i>Panopea reflexa</i> Say = <i>P.</i> <i>Faujasii</i> ?	125	<i>heros</i> Say.
125	<i>Macra tellinoides</i> Contr.	125	<i>Fulgur carica</i> Say.
125	<i>Pandora trilineata</i> Say.	125	<i>canaliculatus</i> Say.
125	<i>Cardita tridentata</i> Say.	125	<i>Scalaria clathrus</i> Lam.
125	<i>Lucina contracta</i> Say.	125	<i>Vermetus lumbricalis</i> Lam.
125	<i>crenulata</i> Contr.	125	<i>Rangia cyrenoides</i> . <i>Clathradon cuneata</i> .

(Appendix to same.)

153	<i>Amphidesma inequale</i> Say.	153	<i>Corbula contracta</i> Say.
153	<i>Arthemis concentrica</i> .	153	<i>Oliva litterata</i> Lam.
153	<i>Anomia ehippium</i> Linn.	153	<i>zonalis</i> Lam.
153	<i>Cytherea gigantea</i> Lam.	153	<i>Pecten magellanicus</i> .
153	<i>Lutraria canaliculata</i> Say.	153	<i>Cerithium dislocatum</i> .
153	<i>Macra lateralis</i> Say.		

Haldeman.—*Leptoxis*: par M. STEHMAN HALDEMAN. (From Illustrations Conchyliologiques, par M. Chenu, liv. 73.)

Pa. Pl.	Fig.	Name.	Locality.
2 i	1-18	Leptoxis prærosa Say. <i>Anculosa prærosa</i> Say. <i>Melanopsis neritiformis</i> Desh. <i>Anculotus prærosus</i> Conrad. <i>Melania cruentata</i> Menke. <i>Cincinnatiensis</i> Lea. <i>Anculotus angulatus</i> Conrad. <i>Leptoxis retusa</i> Raf. ?	Ohio, Ind., Ky., Ten., Ala.
2 i	19-23	crassa Hald.	Clinch river, Tenn.
2 i	24-26	incisa Lea. <i>Anculosa incisa</i> Lea.	Alabama.
2 i, ii	27-34	obovata Say. <i>Melania obovata</i> Say. <i>Hildrethiana</i> Lea.	Ohio river.
3 ii	35-39	plicata Conrad. <i>Anculotus plicatus</i> Conrad. <i>Anculosa tuberculata</i> Lea.	Tenn. & Ala. rivers.
3 ii	40-58	subglobosa Say. <i>Melania globula</i> Lea. <i>virgata</i> Lea. <i>Anculosa gibbosa</i> Lea. <i>subglobosus</i> Conrad.	Holston river, Tenn.
3 ii, iii	59-70	rubiginosa Lea. <i>Anculosa rubiginosa</i> Lea. <i>Griffithiana</i> Lea.	Warrior and Coosa rivers, Ala.
3 iii	71-73	tæniata Conrad. <i>Anculosa tæniata</i> Conrad.	Claiborne.
3 iii	74-80	picta Conrad. <i>Anculosa flammata</i> Lea. <i>Foremani</i> Lea ?	Alabama.
4 iii	81	Troostiana Lea. <i>Anculosa Troostiana</i> Lea.	Tennessee river.
4 iii	82	pisum Hald.	Tennessee river.
4 iii, iv	83-84	fusca Hald.	Oregon.
4	85-101	dissimilis Say. <i>Paludina dissimilis</i> Say. <i>Helix subcarinata</i> Wood. <i>Anculosa nigrescens</i> Conrad.	Pa., Va., &c.
4 iv	102-109	variabilis Lea. <i>Anculosa variabilis</i> Lea. <i>carinata</i> Lea. <i>Melania Nickliniana</i> Lea ?	Roanoke, Va.

Pa. Pl.	Fig.	Name.	Locality.
4 iv	110	Leptoxis littorina Hald. <i>Anculosa littorina</i> Hald. <i>Melania pilula</i> Lea.	Holston river, Va.
4 iv	111-120	dilatata Conrad. <i>Melania dilatata</i> Conrad. <i>Rogersii</i> Conrad. <i>inflata</i> Lea. <i>Anculotus Kirtlandianus</i> Anth. <i>carinatus</i> Conrad.	Kanawha river, Va.
5 iv v	124-133	monodontoides Conrad. <i>Anculosa monodontoides</i> Conrad. <i>dentatus</i> Couth.	Virginia.
5 v	134-144	trilineata Say. <i>Melania trilineata</i> Say. <i>Anculotus costatus</i> Anthony. <i>Melania viridis</i> Lea. <i>occidentalis</i> Lea.	Ohio river.
5 v	145-146	melanoides Conrad.	Alabama.
5 v	147-150	virens Lea. <i>Paludina virens</i> Lea. <i>nuclea</i> Lea?	Wahlamat.
5 v	151	turgida Hald.	Alabama.
5 v	152	altilis Lea.	Susquehanna river.
6 v	153	crenata Hald.	Santee canal, S. C.
6 v	154	integra Say. <i>Melania integra</i> Say. <i>Anculotus pumilus</i> Conrad.	Ohio river.
6 v	155	isogona Say. <i>Melania isogona</i> Say. <i>Paludina pallida</i> Lea. <i>Ammicola isogona</i> Lea. <i>Mudalia isogona</i> Hald.	Ohio, Ky., Ind.
6 v	156	? Nuttalliana Lea. <i>Paludina Nuttalliana</i> L. <i>seminalis</i> Hinds?	Wahlamat creek.

Haldeinan.—Mollusca: by S. S. HALDEMAN. (In Rupp's History of Lancaster County, p. 479. Lancaster, Pa., 1844.)

Page.		Page.	
479	Melania virginica.	480	Ammicola limosa.
479	Anculosa dissimilis.	480	lustrica.
480	Paludina decisa.	480	granum.
480	—	480	Valvata tricarinata.

Page.		Page.	
480	<i>Physa heterostropha.</i>	482	<i>Helix fuliginosa.</i>
480	<i>Limnea palustris.</i>	482	<i>hirsuta.</i>
	<i>L. elodes.</i>	482	<i>pulchella.</i>
480	<i>desidiosa.</i>	482	<i>indentata.</i>
480	<i>caperata.</i>	482	<i>electrina.</i>
480	<i>humilis.</i>	482	<i>labyrinthica.</i>
481	<i>Planorbis bicarinatus.</i>	482	<i>Succinea obliqua.</i>
481	<i>parvus.</i>	482	<i>Unio cariosus.</i>
481	<i>Ancylus rivularis.</i>	482	<i>radiatus.</i>
481	<i>Helix albolabris.</i>	482	<i>complanatus.</i>
481	<i>thyroides.</i>	482	<i>viridis.</i>
481	<i>tridentata.</i>	482	<i>Alasmodon undulatus.</i>
481	<i>concava.</i>	482	<i>marginatus.</i>
481	<i>alternata.</i>	482	<i>Anodon cataractus.</i>
481	<i>hirsuta.</i>	482	<i>undulatus.</i>
482	<i>palliata.</i>		

Taylor.—Notice of occurrence of Green-gilled Oysters: by W. J. TAYLOR. (From Amer. Journ. Sci., n. s., vol. xxv, p. 294. March, 1858.)

Gould.—Catalogue of Maine Shells: by Dr. A. A. GOULD. (In First Report on the Geology of the State of Maine, by Charles F. Jackson, M. D., p. 119. Augusta, 1837.)

Page.		Page.	
119	<i>Solen ensis</i> L.	119	<i>Alasmodonta margaritifera</i>
119	<i>Solecurtus costatus</i> Say.	119	<i>undulata</i> Say. [<i>Gmel.</i>
119	<i>Glycimeris siliqua</i> Lam.	119	<i>Anodonta marginata</i> Say.
119	<i>Mya mercenaria</i> Linn.	119	<i>Modiola papuana</i> Lam.
119	<i>truncata.</i>	119	<i>plicatula</i> Lam.
119	<i>hyalina</i> Conr.	119	<i>Mytilus edulis</i> Linn.
119	<i>Anatina Leana</i> Conr.	119	<i>pellucidus</i> Penn.
119	<i>Mactra gigantea</i> Lam.	119	<i>Pecten Magellanicus</i> Lam.
119	<i>Solemya velum</i> Say.	119	<i>Islandicus</i> Lam.
119	<i>Saxicava distorta</i> Say.	119	<i>Ostrea Canadensis</i> Lam.
119	<i>Sanguinolaria fusca</i> Conr.	119	<i>Anomia ephippium.</i>
119	<i>Crassina Danmoniensis</i>	119	<i>Terebratula</i> —.
	<i>Astarte castanea</i> Say. [<i>Lam.</i>	119	<i>Chiton</i> —.
119	<i>Cyprina Islandica</i> Lam.	119	<i>Patella amœna</i> Say.
119	<i>Cardium Icelandicum.</i>	119	<i>Crepidula fornicata</i> Say.
119	<i>Grœnlandicum.</i>	119	<i>plana</i> Say.
119	<i>Unio complanatus</i> Sol.	119	<i>Helix albolabris</i> Say.

Page.		Page.	
119	<i>Helix thyroideus Say.</i>	119	<i>Turbo palliatus Say.</i>
119	<i>alternata Say.</i>	119	<i>vestitus Say.</i>
119	<i>Planorbis trivolvus Say.</i>	119	<i>Fusus corneus Say.</i>
119	<i>campanulatus Say.</i>	119	<i>decemcostatus Say.</i>
119	<i>Physa heterostropha Say.</i>	119	<i>Islandicus Martini.</i>
119	<i>Lymnæa columella Say.</i>	119	<i>Purpura lapillus Lam.</i>
119	<i>Paludina decisa Say.</i>	119	<i>Buccinum undatum Linn.</i>
119	<i>Natica heros Say.</i>	119	<i>Nassa obsoleta Say.</i>
119	<i>triseriata Say.</i>	119	<i>trivittata Say.</i>

Pourtales.—Notes on Specimens of the Bottom of the Ocean brought up in recent Explorations of the Gulf Stream, in connection with the Coast Survey: by L. F. POURTALES, Assistant. (From Proc. Amer. Assoc. Advanc. Sci., for 1853, page 181. Cambridge, 1856.)

Page.	Name.	Locality.
183	<i>Spirialis Gouldii.</i>	Lat. 30° 50'; long. 78° 49'.

[This is the only specific name of Mollusca given.—W. G. B.]

Thomas.—Indications of Weather as shown in Animals and Plants: by W. H. B. THOMAS, of Philadelphia. (From same as last, p. 119.) Notes on—

Page.		Page.	
120	<i>Helix alternata.</i>	120	<i>Helix thyroideus.</i>
120	<i>arborea.</i>	121	<i>solitaria.</i>
120	<i>indentata.</i>	121	<i>zaleta.</i>
120	<i>Ruderati.</i>	121	<i>albolabris.</i>
120	<i>minuta.</i>	121	<i>thyroideus.</i>
120	<i>clausa.</i>	121	<i>appressa.</i>
120	<i>ligera.</i>	121	<i>tridentata.</i>
120	<i>Pennsylvanica.</i>	121	<i>fallax.</i>
120	<i>elevata.</i>	121	<i>psiliata.</i>
120	<i>solitaria.</i>	121	<i>hirsuta.</i>
120	<i>zaleta</i>		

Dr. J. P. Kirtland.—(Silliman's Journal, o. s., vol. xxxi, No. 1, p. 200. January, 1837.) Notes on—

Page.		Page.	
200	<i>Helix fuliginosa.</i>	200	<i>Helix glaphyra.</i>

Conrad.—Descriptions of fifteen new species of Recent, and three of Fossil Shells, chiefly from the Coast of the United States: by TIMOTHY A. CONRAD, Member &c. (From Journ. Acad. Nat. Sci. of Philadelphia, vol. vi, p. 256. March, 1831.)

Page.	Pl.	Fig.	Name.	Locality.
257			Mactra solidissima Chemn. <i>M. solida</i> (var. β) Gmelin. <i>procera</i> Solander. <i>grandis</i> Solander. <i>stultorum</i> Solander. <i>gigantea</i> Lam. <i>similis</i> Say.	
257	xi	1	<i>arctata</i> Conrad.	Mass. to Florida.
258	xi	2-3	<i>tellinoides</i> Conrad.	Northern coast.
258	xi	4	<i>nucleus</i> Conrad.	New Jersey.
258			Cardium laqueatum Conr. (fossil).	Maryland.
259	xi	5-7	Mortoni Conrad.	Northern coast.
260	xi	8	<i>pinnulatum</i> Conrad.	Massachusetts.
260			Pecten Pealeii Conrad.	Maine.
261	xi	12	<i>Mya hyalina</i> Conrad.	Northern coast.
261			Cytherea convexa Say.	Rhode Island.
263	xi	11	<i>Anatina Leana</i> Conrad.	Northern coast.
263	xi	13	Mytilus leucophæatus Conrad.	Southern coast.
264			Arca maxillata Conrad (fossil).	Maryland.
264	xi	14-15	Venus alveata Conrad. <i>V. paphia</i> Linn.	Maryland.
265			Pecten Magellanicus.	Maine.
266	xi	17-18	Velutina rupicola Conrad.	Massachusetts.
266	xi	19	Lacuna pertusa Conrad.	Massachusetts.
267	xi	20	Patella alveus Conrad.	Massachusetts.

Conrad, Case, &c.—In the new series of the American Journal of Science and Art, occur the following:—

Vol.	Page.	Name.	Locality.
May,	1846.	Conrad. —Catalogue of Recent Shells found also in the Miocene: by T. A. CONRAD. [No descriptions.]	
i	404	Artemis acetabulum Conrad.	Florida.
i	404	<i>elegans</i> Conrad.	Florida.
i	404	Astarte lunulata Conrad.	Charleston.
i	404	Arca improcera Conrad.	Southern coast.
i	404	Anomia ephippium Linn.	
i	404	Amphidesma æquale Say.	Southern coast.

[American Journal of Science—continued.]

Vol.	Page.	Name.	Locality.
i	404	<i>Cardita tridentata</i> Say.	Southern coast.
i	404	<i>granulata</i> Say.	Southern coast.
i	404	<i>Chama arcinella</i> Lam.	Southern coast.
i	404	<i>Cumingia tellinoides</i> Conrad.	Southern coast & Mass.
i	404	<i>Cultellus Carribæus</i> .	S'n coast, Mass., N. J.
i	404	<i>Cytherea elevata</i> Conrad.	Gulf of Mexico.
i	404	<i>Sayana</i> Conrad.	Rh. Island, Mass., N. J.
i	404	<i>Lucina crenulata</i> Conrad.	Cape Henry, Va.
i	404	<i>divaricata</i> Lam.	Atlantic coast.
i	404	<i>trisulcata</i> Conrad.	Florida.
i	404	<i>radula</i> Lam.	Rhode Island & Mass.
i	404	<i>squamosa</i> Lam.	Southern coast.
i	404	<i>Macra lateralis</i> Say.	Atlantic coast.
i	404	<i>Nucula acuta</i> Say.	
i	404	<i>proxima</i> Say.	Atlantic coast.
i	404	<i>limatula</i> Say.	Massachusetts.
i	404	<i>acuta</i> Conrad.	Gulf of Mexico.
i	404	<i>Pecten concentricus</i> Say.	Atlantic coast.
i	404	<i>Tellina lusoria</i> Say.	Southern coast.
i	404	<i>Venus lanceata</i> Say.	Southern coast.
i	404	<i>mercenaria</i> L.	Atlantic coast.
i	404	<i>metastriata</i> Say.	Florida.
i	405	<i>Cerithium clavulus</i> H. C. Lea.	Tampa Bay.
i	405	<i>dislocatum</i> Say.	Southern coast.
i	405	<i>Dentalium coarctatum</i> Lam.	Gulf of Mexico.
i	405	<i>Crepidula unguiformis</i> .	Atlantic coast.
i	405	<i>fornicata</i> Lam.?	Atlantic coast.
i	405	<i>convexa</i> Say?	Atlantic coast.
i	405	<i>Fulgur carica</i> ?	Southern coast.
i	405	<i>canaliculatus</i> .	Atlantic coast.
i	405	<i>Natica heros</i> Say.	Atlantic coast.
i	405	<i>duplicata</i> Say.	Atlantic coast.
i	405	<i>canrena</i> Lam.	Florida.
i	405	<i>Nassa trivittata</i> Say.	Atlantic coast.
i	405	<i>obsoleta</i> Say.	Atlantic coast.
i	405	<i>lunata</i> Say.	Atlantic coast.
i	405	<i>Oliya litterata</i> Lam.	Florida.
i	405	<i>zonalis</i> Lam.	Florida.
Conrad. —Notices of Fresh-water Shells, &c., of Rock- bridge County, Va.: by T. A. CONRAD.			
i	407	<i>Unio collinus</i> Conrad.	
i	407	<i>purpureus</i> Say.	
i	407	<i>constrictus</i> Conrad.	
i	407	<i>subplanus</i> Conrad.	
i	407	<i>lanceolatus</i> Lea.	
i	407	<i>Alasmodonta undulata</i> Say.	
i	407	<i>marginata</i> Say.	
i	407	<i>Anodon cataracta</i> Say.	
i	407	<i>marginata</i> Say?	
i	407	<i>Planorbis parvus</i> Say.	
i	407	<i>Ancylus rivularis</i> Say.	
i	407	<i>Paludina decisa</i> Say.	
i	407	<i>Anculosa dilatata</i> Conrad.	
i	407	<i>Melania virginica</i> Say.	

[American Journal of Science—continued.]

Vol.	Page.	Name.	Locality.
Nov.	1846.	Conrad. —Observations on the Geology of a part of East	
ii	36	Florida, with a Catalogue of Recent Shells of the Coast: by T. A. CONRAD.	
ii	38	<i>Unio Blandingianus</i> Lea = Caro- linensis Bosc.	Savannah river.
ii	38	subinflatus Conrad.	Savannah river.
ii	38	Shepardianus Lea.	Savannah river.
ii	39	Ostrea Virginiana.	Near mouth St. John's r.
ii	39	Mytilus edulis.	Near mouth St. John's r.
ii	39	cubitus Say.	Near mouth St. John's r.
ii	39	Tellina lateralis Say.	Near mouth St. John's r.
ii	39	Amphidesma equalis Say.	Near mouth St. John's r.
ii	39	Mactra lateralis Say.	Near mouth St. John's r.
ii	39	Solecuretus caribæus.	Near mouth St. John's r.
ii	39	Arca pexata Say.	Near mouth St. John's r.
ii	39	incongrua Say.	Near mouth St. John's r.
ii	39	ponderosa Say.	Near mouth St. John's r.
ii	39	Donax variabilis Say.	Near mouth St. John's r.
ii	39	Cardium magnum.	Near mouth St. John's r.
ii	39	Lucina divaricata.	Near mouth St. John's r.
ii	39	Petricola dactylus.	Near mouth St. John's r.
ii	39	Ranella caudata Say.	Near mouth St. John's r.
ii	39	Cryptostoma perspectiva Say.	Near mouth St. John's r.
ii	39	Crepidula plana Say.	Near mouth St. John's r.
ii	39	Littorina irrorata Say.	Near mouth St. John's r.
ii	39	Oliva litterata.	Near mouth St. John's r.
ii	39	Fulgur carica.	Near mouth St. John's r.
ii	39	canaliculata.	Near mouth St. John's r.
ii	39	Natica duplicata?	Near mouth St. John's r.
		All the above, except <i>Fulgur carica</i> and <i>Solecuretus caribæus</i> , I sub- sequently found at Tampa bay.	
ii	39	Tellina radiata.	Fort Lauderdale.
ii	39	Polygyra plicata Say.	Key Biscayne.
ii	39	Nerita peleronta.	Indian Key.
ii	39	tessellata.	Indian Key.
ii	39	versicolor.	Indian Key.
ii	39	pica.	Indian Key.
ii	39	Littorina muricata.	Indian Key.
ii	40	Succinea avara Say.	Island near Indian Key.
ii	40	Polygyra plicata.	Island near Indian Key.
ii	40	septemvoluta.	Island near Indian Key.
ii	40	Achatina fasciata.	Island near Indian Key.
ii	40	Spirula Peronii.	Island near Indian Key.
ii	40	Ianthina fragilis.	Island near Indian Key.
ii	40	Carditomeria Floridana.	Island near Indian Key.
ii	40	Fasciolaria tulipa.	Key West.
ii	40	Nerita peleronta.	Key West.
ii	40	Fusus corona.	Key West.
ii	41	Strombus gigas.	Key West.
ii	41	Ninus cancellata Lam.	Mullet Key.
ii	41	Chama arcinella.	Mullet Key.
ii	41	Strombus pugillus.	Mullet Key.
ii	41	Natica canrena.	Egmont Key.
ii	41	Pecten dislocatus.	Egmont Key.

[American Journal of Science—continued.]

Vol.	Page	Name.	Locality.
ii	42	<i>Modiola demissa.</i>	Tampa bay.
ii	42	<i>Cardium Mortoni.</i>	Tampa bay.
ii	42	<i>Osteodesma hyalina.</i>	Tampa bay.
ii	42	<i>Pecten concentricus.</i>	Tampa bay.
ii	42	<i>Anomia ehippium.</i>	Tampa bay.
ii	42	<i>Marginella conoidalis.</i>	Tampa bay.
ii	42	<i>Nassa vibex Say.</i>	Tampa bay.
ii	42	<i>Murex corona Linn.</i>	Tampa bay.
ii	42	<i>Fasciolaria trapezium.</i>	Tampa bay.
ii	42	<i>Fulgur perversus.</i>	Tampa bay.
ii	42	<i>pyrum.</i>	Tampa bay.
ii	42	<i>Venus Mortoni.</i>	Tampa bay.
ii	42	<i>Littorina angulifera.</i>	Tampa bay.
ii	45	<i>Neretina reclivata.</i>	Tampa bay.

Nov. 1846. **Conrad.**—Catalogue of Florida Shells, Tampa Bay, &c.:
by T. A. CONRAD.

Vol.	Pa.	Name.	Vol.	Pa.	Name.
ii	393	<i>Amphidesma variegata</i>	ii	394	<i>Lucina squamosa Lam.</i>
ii	393	<i>radiata Say. [Lam.</i>	ii	394	<i>tigrina Lam.</i>
ii	393	<i>orbiculata Say.</i>	ii	394	<i>Floridana Contr.</i>
ii	393	<i>æqualis Say.</i>	ii	394	<i>edentula Lam.</i>
ii	393	<i>zebra.</i>	ii	394	<i>trisulcata Contr.</i>
ii	393	<i>Artemis elegans Contr.</i>	ii	394	<i>Mactra ovalis?</i>
ii	393	<i>concentrica Lam.</i>	ii	394	<i>lateralis Say.</i>
ii	393	<i>Anomia ehippium Lin.</i>	ii	394	<i>fragilis Lam.</i>
ii	393	<i>Arca scapha?</i>	ii	394	<i>Modiola demissa Dillw.</i>
ii	393	<i>incongrua Say.</i>	ii	394	<i>lateralis Say.</i>
ii	393	<i>ponderosa Say.</i>	ii	394	<i>papyria Contr.</i>
ii	393	<i>Avicula —.</i>	ii	394	<i>Americana.</i>
ii	393	<i>Astarte lunulata Contr.</i>			<i>M. tulipa Lam.</i>
ii	393	<i>flabella.</i>	ii	394	<i>Mytilus hamatus Say.</i>
ii	393	<i>Cardium citrinum Wood.</i>	ii	394	<i>cubitus Say.</i>
ii	393	<i>isocardia Lam.</i>	ii	394	<i>Meleagrina —.</i>
ii	393	<i>magnum Born.</i>	ii	394	<i>Nucula acuta Contr.</i>
ii	393	<i>bullatum Lam.</i>	ii	394	<i>eborea Contr.</i>
ii	393	<i>Mortoni Contr. [Con.</i>	ii	395	<i>Ostrea Virginiana Gmel.</i>
ii	393	<i>Carditamera Floridana</i>	ii	395	<i>Osteodesma hyalina C.</i>
		<i>Cypriocardia nodulosa</i>	ii	395	<i>Periploma inequivalvis</i>
		Mighels.			<i>Lam.</i>
ii	394	<i>Cardita tridentata Say.</i>	ii	395	<i>Pecten concentricus S.</i>
ii	394	<i>Chama arcinella Lam.</i>	ii	395	<i>dislocatus Say.</i>
ii	394	<i>Cytherea gigantea Lam.</i>	ii	395	<i>Pinna —.</i>
ii	394	<i>maculata Lam.</i>	ii	395	<i>Floridana Contr.</i>
ii	394	<i>Corbula limatula Contr.</i>	ii	395	<i>Plicatula ramosa Lam.</i>
ii	394	<i>Cyrena Carolinensis</i>	ii	395	<i>Solen ensis Linn.</i>
		Bosc.	ii	395	<i>Solecuretus fragilis Van.</i>
ii	394	<i>Floridana Contr.</i>	ii	395	<i>Tellina punicea Linn.</i>
ii	394	<i>Donax variabilis Say.</i>	ii	395	<i>acuta Wood.</i>
ii	394	<i>—.</i>	ii	395	<i>lateralis Say.</i>
ii	394	<i>—.</i>	ii	395	<i>—.</i>
ii	394	<i>Lucina nassula Contr.</i>	ii	395	<i>—.</i>
ii	394	<i>cribaria Say.</i>	ii	395	<i>Venus cancellata Lam.</i>
ii	394	<i>Pennsylvanica Lam.</i>	ii	395	<i>punctulata Val.</i>

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ii	395	<i>Venus Mortonii</i> <i>Conr.</i>	ii	397	<i>Murex Tampaensis</i> <i>Conr.</i>
ii	395	<i>cuneimeris</i> <i>Conr.</i>	ii	397	<i>Marginella conoidalis</i>
ii	396	<i>Actæon Floridanus</i> <i>C.</i>			<i>Kiener.</i>
ii	396	<i>Bulla succinea</i> <i>Conr.</i>	ii	397	<i>succinea</i> <i>Conr.</i>
ii	396	—	ii	397	<i>albilabris</i> <i>Conr.</i>
ii	396	<i>Bullina canaliculata</i> <i>S.</i>	ii	397	<i>Monodonta</i> —
ii	396	<i>Cancellaria cancellata</i>	ii	397	<i>Melampus bidentatus</i>
		<i>Lam.</i>			<i>Say.</i>
ii	396	<i>Cerithium protextum</i> <i>C.</i>	ii	397	<i>Melongena (Fusus) corona</i> <i>Lam.</i>
ii	396	<i>septemstriatum</i> <i>S.</i>	ii	397	<i>Natica duplicata</i> <i>Say?</i>
ii	396	<i>eriense</i> <i>Kiener.</i>	ii	397	<i>canrena</i> <i>Lam.</i>
		<i>C. nigrescens</i> <i>Mke.?</i>	ii	397	<i>Neritina (Theodoxus) reclinata</i> <i>Say.</i>
ii	396	<i>dislocatum</i> <i>Say.</i>	ii	397	<i>Oliva litterata</i> <i>Lam.</i>
ii	396	—	ii	397	<i>mutica</i> <i>Lam.</i>
ii	396	—	ii	398	<i>Ovulum aciculare</i> <i>Lam.</i>
		[<i>Lam.</i>]	ii	398	<i>Patella</i> —
ii	396	<i>Crepidula fornicata</i>	ii	398	<i>Pleurotoma</i> —
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ii	396	<i>unguiformis</i> <i>Lam.</i>	ii	398	<i>cancellaria</i> <i>Conr.</i>
		<i>C. plana</i> <i>Say.</i>	ii	398	<i>Pyrula papyraria</i> <i>Say</i>
ii	396	<i>Cyprea pediculus.</i>			(<i>Ficus</i>).
ii	396	<i>Cassis sulcosa</i> <i>Lam.</i>	ii	398	<i>Pyramidella alveata</i> <i>C.</i>
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ii	396	<i>Dentalium eboreum</i>	ii	398	<i>Triton lineolatum</i> <i>Conr.</i>
ii	396	<i>coarctatum</i> <i>Lam.</i>	ii	398	<i>Turbo castaneus.</i>
		<i>D. gadus</i> <i>Sowb.</i>	ii	398	<i>Trochus Tampaensis</i> <i>C.</i>
ii	396	<i>Fulgur perversus</i> <i>Lam.</i>	ii	398	<i>Voluta Junonia.</i>
ii	396	<i>pyruloides</i> <i>Say.</i>	ii	398	<i>Vermetus lumbricalis.</i>
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ii	397	<i>Littorina littorea</i> <i>Say.</i>	ii	398	<i>Succinea campestris.</i>
ii	397	(<i>Phasianella</i>) <i>angulifera</i> <i>Lam.</i>			
ii	397	<i>Murex ostrearum</i> <i>Conr.</i>			
ii	397	<i>cellulosa</i> <i>Conr.</i>			

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iii	101	4, 5	<i>Planorbis multivolvis</i> <i>Case.</i>	Michigan.
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iii	276		<i>Helix annulata</i> <i>Case</i> = <i>H. striatella</i> junior.	

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vi	233	1, 2	<i>Astarte mactracea</i> Gould.	Connecticut.		
vi	233		<i>Cytherea morrhuana</i> Linsley = <i>C. convexa</i> Say.			
vi	233		<i>Unio Pequottinus</i> Lins. = <i>U. latus</i> Raf. (<i>U. rectus</i> Say).			
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vi	236		<i>Helix Trumbulli</i> = <i>Skenea serpuloides</i> .	Connecticut.		
vi	236	7	<i>Fusus Trumbulli</i> Linsley.	Connecticut.		
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Mar.	1856.		T. A. Conrad.			
xxi	172		<i>Unio diversus</i> Conr. (fig.)	Shoal creek, N. Ala.		
xxi	172		<i>viridis</i> Raf.	Phoenixville, Pa., & Trenton.		
Jan.	1858		Stimpson. —Criticism on the Mollusca of Rink's "Greenland:" by WILLIAM STIMPSON.			
			[No descriptions, but many critical remarks.—W. G. B.]			
xxv	125		<i>Tellina tenera</i> Say; if preoc., may be called— <i>T. agilis</i> Stimpson.			
March,	1859.		Smith. —Depth of Mollusca of Peconic and Gardiner's Bays, Long Island, N. Y.: by SANDERSON SMITH.			
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xxvii	283	<i>Astarte niactracea.</i>	xxvii	283	<i>Saxicava distorta.</i>

Storer, Binney, &c.—In the Boston Journal of Natural History occur the following:—

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May, 1837					Storer. —Description of a new species of <i>Margi-</i> <i>nella</i> : by D. HUMPHREYS STORER, M. D.	
i	4	465	x	2	<i>Marginella carnea</i> Storer.	Key West.
i	4	466			Binney. —A Monograph of the <i>Helices</i> inhabit- ing the United States: by AMOS BINNEY, M. D.	
					[This paper was also published in pamphlet form.—W. G. B.]	
i	4	473	xii		<i>Helix major</i> Binney.	[For locality, vide quotations from "Terrestrial Mol- lusks."]
i	4	475	xiii		<i>H. albolabris</i> var. <i>maxima</i>	
i	4	480	xiv		<i>albolabris</i> Say. [Fer.	
i	4	482	xv		<i>multilineata</i> Say.	
i	4	483	xvi		<i>clausa</i> Say.	
i	4	485	xvii		<i>Pennsylvanica</i> Green.	
i	4	488	xviii		<i>subglobosa</i> Binney.	
i	4	490	xix		<i>thyroidus</i> Say.	
					<i>Mesodon leucodon</i> Raf:	
					<i>elevata</i> Say.	
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i	4	494	xxi		dentifera Binney.	
Febr. 1838					Couthouy. —Descriptions of new species of Mollusca and Shells, and Remarks on several Polypi found in Massachusetts Bay: by JOSEPH P. COUTHOUY.	
ii	1	53				
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ii	1	61	iii	6	Cardium pubescens Couth.	
ii	1	62	iii	7	Nucula myalis Couth.	
ii	1	64	iii	8	<i>tenuisulcata</i> Couth.	
ii	1	65			Terebratula septentrionalis Couth.	
ii	1	67	i	1	Eolis Bostoniensis Couth.	
ii	1	68	i	2	(<i>Cavolina</i>) <i>salmonacea</i> Couth.	
ii	1	69	i	3	(<i>Tergipes</i>) <i>gymnota</i> Couth.	
ii	1	74	ii	1-4	Tritonia Reynoldsii Couth.	
ii	1	80			Chiton fulminatus Couth.	
ii	1	82			<i>sagrinatus</i> Couth.	
ii	1	83	iii	10	Emersonii Couth.	
ii	1	86			Patella candida Couth.	
ii	1	87			Rimula Noachina Linn. <i>Patella Noachina</i> Linn. <i>apertura</i> Mont. <i>fissurella</i> Gmelin. <i>Fissurella Noachina</i> Lyell. <i>Sipho radiata</i> Brown.	
ii	1	88	ii	8	Bulla triticea Couth.	
ii	1	89			Natica consolidata Couth.	
ii	1	90			Oxynoë? <i>glabra</i> Couth.	
ii	1	92	ii	7	Jaminia exigua Couth.	
ii	1	93	iii	4	Scalaria subulata Couth.	
ii	1	96	iii	5	<i>Novangli</i> Couth.	
ii	1	98			Turbo incarnatus Couth.	
ii	1	99	iii	9	<i>cinereus</i> Couth.	
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ii	1	108	iii	2	Trichotropis costellatus Couth.	
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ii	1	110			Modiola discors Linn.	
ii	1	110			<i>discrepans</i> Lam.	
ii	1	110			Valvata tricarinata Say.	
ii	1	110			Natica immaculata Totten.	
ii	1	110			Galericulum lævigatum Brown.	
ii	1	110			<i>ovatum</i> Brown.	
ii	1	111			Fusus turriculus Mont.	
ii	1	111			Nassa acuta Say.	
ii	1	111			Actæon trifidus (<i>Jaminia</i>) Tott.	

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ii	1	111			microcosmus Cuv.	
ii	1	111			intestinalis Linn.	
ii	1	111			pedunculata Lam.	
ii	1	122			Storer. —Description of a new species of <i>Nucula</i> from Massachusetts Bay: by D. HUMPHREYS STORER, M. D.	
ii	1	122			Nucula thraciæformis Storer (with a fig.)	
Feb.	1839				Couthouy. —Monograph of the Family Osteodesmacea of Deshayes, with Remarks on two species of Patelloidea, and Descriptions of new species of Marine Shells, a species of Anculotus, and one of Eolis: by JOSEPH P. COUTHOUY.	
ii	2	153	iv	2	Thracia Conradi Couth. <i>T. declivis</i> Conr. <i>Anatina convexa</i> Hitchcock's Catalogue.	New England.
ii	2	166			Osteodesma hyalina Conr. <i>Mya hyalina</i> Conr.	
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ii	2	171			Patelloidea amœna Say. <i>Patella amœna</i> Say.	
ii	2	177			alveus Conr. <i>Patella alveus</i> Conr.	
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ii	2	179	iii	15	Bulla lineolata Couth.	Massachus'ts Bay.
ii	2	180	iv	5	hiemalis Couth.	Massachus'ts Bay.
ii	2	181	iv	6	Gouldii Couth.	Massachus'ts Bay.
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ii	2	187	iv	9	Eolis diversa Couth.	Massachus'ts Bay.
ii	2	262			Adams. —Observations on some species of the Marine Shells of Massachusetts, with Descriptions of five new species: by C. B. ADAMS, A. M. [No descriptions, but remarks, locality, &c.—W. G. B.]	
ii	2	263			Columbella avara Say.	
ii	2	264			Buccinum vibex. <i>Nassa vibex</i> Say.	
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ii	2	268			Purpura lapillus Linn. <i>Buccinum lapillus</i> L.	
ii	2	269			Ranella caudata Say.	
ii	2	269			Pyrula canaliculata Lam. <i>Murex canaliculata</i> Linn.	
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iii	1, 2	279	iii	3	Paludina Cincinnatiensis	Cincinnati.
July,	1840				Adams. —Descriptions of thirteen new species of New England Shells: by C. B. ADAMS, A. M.	
iii	3	318	iii	6	Pleurotoma plicata Adams.	New Bedford.
iii	3	320	iii	7	Cerithium terebrale Adams. <i>C. Emersonii</i> (var.) Ad.	New Bedford.
iii	3	322	iii	8	Jamina producta Adams.	Fairhaven.
iii	3	323	iii	9	Tornatella punctostriata	New Bedford.
iii	3	324	iii	13	Limnæa pallida Ad. [Ad.	Lake Champlain.
iii	3	325	iii	14	<i>umbilicata</i> Adams.	New Bedford.
iii	3	326	iii	15	Planorbis virens Adams.	New Bedford. [&c.
iii	3	327	iii	16	<i>elevatus</i> Adams.	S. Bos'n, L. George,
iii	3	329	iii	17	Ancylus fuscus Adams.	Andover & Mans-
iii	3	330	iii	11	Cyclas elegans Adams.	Vermont. [field.
iii	3	331	iii	18	Pupa badia Adams.	Crown Point, N. Y.
					Adams. —Description of <i>Tellina tenta</i> Say, and of <i>Helix serpuloides</i> Montague, with remarks on other Marine Shells of Massachusetts: by C. B. ADAMS, A. M.	
iii	3	332			Tellina tenta Say.	N. England, S. C.
iii	3	334			Delphinula (?) serpuloides. <i>Helix serpuloides</i> Mont.	East Boston.

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					<i>Turbo serpuloides</i> Turton. <i>Delphinoidea serpuloides</i> Brown.	
iii	3	335			Cerithium Emersonii Adams.	New Bedford.
iii	3	336			Greenii Adams.	New Bedford, &c.
iii	3	337			Jaminia seminuda Adams.	New Bedford.
iii	3	337			fusca Adams. <i>Pyramis fusca</i> Adams.	Fairhaven.
Binney. —A Monograph of the Helices inhabiting the United States: by AMOS BINNEY, M. D. (Continued from vol. i.)						
iii	3	353	vii		Helix palliata Say. <i>H. obstricta</i> Say. <i>denotata</i> Fer. <i>Carolinensis</i> Lea. <i>Carocolla helicoides</i> Lea. <i>Tridopsis scabra</i> Raf.	[For locality, vide quotations from "Terrestrial Mollusks U. S."]
iii	3	356	viii		appressa Say. <i>H. linguifera</i> Fer.	
iii	3	358	ix	1	inflecta Say. <i>H. clausa</i> Fer. <i>Tridopsis clausa</i> Raf.	
iii	3	360	x	1	monodon Rackett. <i>H. Leaii</i> Ward MS.	
iii	3	363	x	2	fraterna Say. <i>H. monodon</i> Wood. <i>convexa</i> Desh.	
iii	3	365	x	3	hirsuta Say. <i>H. fraterna</i> Wood. <i>Stenotrema convexa</i> Raf.	
iii	3	367	xi	2	spinosa Lea. <i>Carocolla spinosa</i> Lea.	
iii	3	369	xii		Nuttalliana Lea.	
iii	3	371	xiii		Townsendiana Lea.	
iii	3	372	xiv		concava Say. <i>H. planorboides</i> Fer. <i>Vancouverensis</i> Lea. <i>Mesomphix planorboides</i>	
iii	3	375	ix	2	pulchella Müll. [Raf. <i>H. palulosa</i> Montagu. <i>minuta</i> Say.	
iii	3	377	xv		profunda Say. <i>H. Richardi</i> Fer.	
iii	3	379	xvi		Sayii Binney. <i>H. diodontu</i> Say, preoc.	
iii	3	382	xvii		tridentata Say.	
			xviii		<i>H. fallax</i> Say.	
iii	3	384	xix	1, 2	auriculata Say. <i>Polygyra auriculata</i> Say. <i>arara</i> Say. <i>H. avara</i> Fer. <i>Sayii</i> Wood.	

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iii	3	388	xix	3	Helix fatigiata Say. <i>Polygyra plicata</i> Say. <i>fatigiata</i> Say. <i>Dorfeuilliana</i> Lea <i>Troostiana</i> Lea.	
iii		391	xix	4	septemvolva Say. <i>Polygyra septemvolva</i> Say. <i>H. septemvolva</i> Fer. <i>planorbula</i> Lam.	
iii	3	393	xxvi	1	labyrinthica Say.	
Anthony. —Descriptions of two new species of <i>Anculotus</i> : by J. G. ANTHONY.						
iii	3	394	iii	5	Anculotus carinatus Anth.	Kanawha falls.
iii	3	395	iii	4	Kirtlandianus Anth.	Kanawha falls.
iii	3	395			Gould. —Monograph of the species of <i>Pupa</i> found in the United States, with figures: by AUGUSTUS A. GOULD, M. D.	
iii	3	397	iii	19	Pupa corticaria Say.	[Localities not given, as they are included in the quotations from "Terrestrial Mollusks U. S."—W. G. B.]
iii	3	398	iii	20	exigua Say.	
iii	3	399	iii	22	contracta Say.	
iii	3	400	iii	10	armifera Say.	
iii	3	401	iii	12	procera Gould.	
iii	3	402	iii	23	miliun Gould.	
iii	3	403	iii	21	simplex Gould.	
iii	3	404			badia Adams.	
Nov.	1841				Binney. —A Monograph of the <i>Helices</i> inhabiting the United States: by AMOS BINNEY, M. D. (Continued.)	
iii	4	405	xxi	1	Helix interna Say. <i>H. pomum-Adami</i> Green.	[For localities, see "Terrestrial Mollusks U. S."—W. G. B.]
iii	4	408	xi	1	gularis Say.	
iii	4	410	xi	3	suppressa Say.	
iii	4	412	xx	1	ligera Say. <i>H. Rafinesquea</i> Fer. <i>Wardiana</i> Lea.	
iii	4	413	xx	2	intertexta Binney.	
iii	4	415	xxii	3	indentata Say.	
iii	4	416	xxvi	3	chersina Say.	
iii	4	417	xxiv		fuliginosa Griffith ined. <i>H. lucubrata</i> Say. <i>lævigata</i> Fer.	
iii	4	419	xxi	3	inornata Say.	
iii	4	421			cellaria Müll. <i>H. nitida</i> Drap. <i>glaphyra</i> Say.	
iii	4	422	xxii	1	arborea Say.	
iii	4	423	xxii	2	electrina Gould.	
iii	4	425	xxii	5	multidentata Binney.	
iii	4	426	xxiii		solitaria Say.	

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iii	4	430	xxi	4	<i>perspectiva</i> Say.	
					<i>H. parvula</i> Desh.	
iii	4	432	xxi	5	<i>striatella</i> Auth.	
iii	4	434	xxi	2	<i>limatula</i> Ward, ined.	
iii	4	435	xxii	4	<i>minuscula</i> Binney.	
iii	4	436	xxii	6	<i>lineata</i> Say.	
iii	4	483			Gould. —Results of an Examination of the Shells of Massachusetts, and their Geographical Distribution: by AUGUSTUS A. GOULD, M. D.	
					[No descriptions. Notes on the following European species]:—	
iii	4	488			<i>Limnæa palustris.</i>	
iii	4	488			<i>stagnalis.</i>	
iii	4	489			<i>Bulimus acutus.</i>	
iii	4	489			<i>Helix variabilis.</i>	
iii	4	489			<i>Pisana.</i>	
iii	4	489			<i>Alasmodon margaritifera.</i>	
					&c. &c.	
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iv	1	38	iv	1	<i>Thracia truncata</i> M. & Ad.	Casco bay.
iv	1	39	iv	2	<i>Cyclas minor</i> M. & Ad.	Weybridge, Vt., Portland, Me.
iv	1	39	iv	3	<i>nitida</i> M. & Ad.	Oxford Co., Me.
iv	1	40	iv	5	<i>Nucula delphinodonta</i> M. & Ad.	Casco bay.
iv	1	40	iv	6	<i>Cascoensis</i> M. & Ad.	Casco bay.
iv	1	41	iv	7	<i>Pecten tenuicostatus</i> M. & Ad.	Casco bay.
iv	1	42	iv	8	<i>Chiton mendicarius</i> M. & Ad.	Casco bay.
iv	1	42	iv	9	<i>Cemoria princeps</i> M. & Ad.	Maine.
iv	1	43	iv	10	<i>Bulla puncto-striata</i> M. & Ad.	Casco bay.
iv	1	44	iv	12	<i>Physa fragilis</i> M. & Ad.	Monmouth, Me.
iv	1	45	iv	13	<i>Limnæa decollata</i> M. & Ad.	Unity, Me.
iv	1	46	iv	14	<i>Margarita varicosa</i> M. & Ad.	Bay Chaleur.
iv	1	46	iv	15	<i>acuminata</i> M. & Ad.	Gulf St. Lawr'ce.
iv	1	47	iv	16	<i>Trochus occidentalis</i> M. & Ad.	Casco bay.
iv	1	48	iv	22	<i>Cingula latior</i> M. & Ad.	Casco bay.
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					<i>Turbo arenarius</i> Mont.	
iv	1	49	iv	23	<i>semicostata</i> M. & Ad.	Casco bay.
					<i>Turbo semicostata</i> Mont.?	
iv	1	50	iv	20	<i>Turritella costulata</i> M. & Ad.	Casco bay.
iv	1	50	iv	19	<i>reticulata</i> M. & Ad.	Bay Chaleur.
iv	1	51	iv	21	<i>Pleurotoma violacea</i> M. & Ad.	Casco bay.
iv	1	51	iv	17	<i>Fasciolaria ligata</i> M. & Ad.	Gulf St. Lawr'ce.
iv	1	52	iv	18	<i>Fusus cancellatus</i> M. & Ad.	Casco bay.
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			Binney. —Description of—	
iv	2	241	Helix subplana Binney.	Tennessee.
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iv	3	339	<i>arctica</i> Leach.				<i>T. costellatus</i> Couth.
iv	3	339	<i>argentata</i> Gould.	iv	3	343	<i>Purpura lapillus</i> Linn.
iv	3	339	<i>acuminata</i> Sowb.	iv	3	343	<i>Buccinum undatum</i> Lin.
iv	3	339	<i>varicosa</i> Migh. [Migh.	iv	3	343	<i>trivittatum</i> Say.
iv	3	339	<i>Trochus occidentalis</i>	iv	3	343	<i>obsoletum</i> Say.
iv	3	339	<i>Littorina</i> (Turbo) <i>rudis</i>	iv	3	343	<i>rosaceum</i> Gould.
			Don.	iv	3	343	<i>ciliatum</i> O. Fabr.
			<i>Turbo obligatus</i> Say.	iv	3	343	<i>Donovani</i> Gray.
iv	3	339	(Turbo) <i>tenebrosa</i>	iv	3	343	<i>plicosum</i> Menke.
			Mont.	iv	3	344	<i>Columbella avara</i> Say.
			<i>Turbo vestitus</i> Say.	iv	3	344	<i>Terebra</i> (Cerithium)
iv	3	339	(Turbo) <i>palliata</i> Say.				<i>dislocata</i> Say.
iv	3	340	<i>Lacuna vineta</i> Mont.				<i>T. Petiti</i> Kiener.

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iv	3	345	xvi	2	Astarte Portlandica <i>Migh.</i>	Casco bay.	
iv	3	346	xvi	3	Bulla pertenuis <i>Migh.</i>	Casco bay.	
iv	3	347	xvi	1	Limnea ampla <i>Migh.</i>	Second Eagle lake, Me.	
iv	3	348	xvi	4	Phasianella sulcosa <i>Migh.</i>	Casco bay.	
iv	3	349	xvi	5	Margarita minutissima <i>Migh.</i>	Casco bay.	
iv	3	349	xvi	6	Delphinula? <i>coarctata</i> <i>Migh.</i>	Casco bay.	
					Gould. —A Monograph of the genus <i>Pupa</i> found in the United States: by AUGUSTUS A. GOULD, M. D. (Continued from vol. iii.)		
iv	3	350	xvi	7-8	Pupa ovata <i>Say.</i>	[For localities, vid. quotations from "Terrest. Moll. U. S."—W. G. B.]	
					<i>P. modesta</i> <i>Say.</i>		
iv	3	352	xvi	9	Gouldii <i>Binney.</i>		
iv	3	353	xvi	10-11	pentodon <i>Say.</i>		
					<i>P. Tappaniana</i> <i>Adams.</i>		
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iv	3	355	xvi	13	rupicola <i>Say.</i>		
iv	3	357	xvi	15	fallax <i>Say.</i>		
					Additional notes on—		
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iv	3	358			<i>exigua</i> <i>Say.</i>		
iv	3	359			<i>contracta</i> <i>Say.</i>		
iv	3	359			<i>milium</i> <i>Gould.</i>		
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					<i>P. carinata</i> <i>Gould.</i>		
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					Binney. —Descriptions of two undescribed species of North American Helices: by AMOS BINNEY, M. D.		
iv	3	360	xx		Helix tudiculata <i>Binney.</i>	San Diego, Cal.	
iv	3	361	xvi	16	demissa <i>Binney.</i>	W'm Penn'a.	
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iv	4	410	xxii		phorus Carolinensis : by JEFFRIES WYMAN, M. D.		
iv	4	416	xxiii		Wyman. —On the Anatomical Structure of <i>Glandina truncata</i> of Say: by JEFFRIES WYMAN, M. D.		

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iv	4	468			1 <i>Paludina vivipara</i> Linn.	
iv	4	468			2 <i>fasciata</i> Müll. <i>P. achatina</i> Lam.	
iv	4	468			3 <i>Physa hypnorum</i> Linn. <i>P. elongata</i> Say.	
iv	4	468			4 <i>Limnea palustris</i> Müll. <i>L. elodes</i> Say.	
iv	4	468			<i>stagnalis</i> L. <i>L. jugularis</i> Say.	
iv	4	468			<i>truncatulus</i> Müll.	
iv	4	468			5 <i>Planorbis albus</i> Müll. <i>nitidus</i> Müll.?	
iv	4	468			6 <i>Cyclas calyculata</i> Dr.	
iv	4	468			7 <i>Pisidium appendiculatum</i> <i>amnicum</i> Müll.? [Leach.	
iv	4	468			8 <i>Alasmodon margaritiferus</i> Linn.	
					On cover of part 1, page 3, Jan. 1842—	
iv	1				<i>Helix subplana</i> Binney.	Tennessee.
iv	1				<i>tenuistriata</i> Binney.	Tennessee.
iv	1				<i>Pupa carinata</i> Gould.	Maryland.
Oct.	1845				H. C. Lea. —Descriptions of some new species of Marine Shells inhabiting the Coast of the United States: by HENRY C. LEA.	
v	2	285	xxiv	1	<i>Pholas semicostata</i> H. C. Lea.	South Carolina.
v	2	286	xxiv	2	<i>Bulla biplicata</i> H. C. Lea.	Cape May.
v	2	287	xxiv	3	<i>Littorina lunata</i> H. C. Lea.	Cape May.
v	2	288	xxiv	4	<i>Cingula robusta</i> H. C. Lea.	Cape May.
v	2	288	xxiv	5	<i>modesta</i> H. C. Lea.	Long Island.
v	2	289	xxiv	6	<i>turriculus</i> H. C. Lea.	South Carolina.
June,	1852				Prime. —Monograph of the species of <i>Pisidium</i> found in the United States of North America, with figures: by TEMPLE PRIME. [Wood-cuts are also given.]	
vi	3	348				
vi	3	351	xi	7-9	<i>Pisidium variabile</i> Prime.	Maine, Mass., N. H., N. Y., Conn.,
vi	3	352	xi	1-3	<i>Adamsii</i> Prime. <i>Cyclas nitida</i> Ad. & Migh.	Maine. [Va.
vi	3	353	xi	10-12	<i>altile</i> Anthony. <i>Cyclas altilis</i> Anthony.	N. Y., Ohio.
vi	3	354	xi	4-6	<i>dubium</i> Gould. <i>Cyclas dubia</i> Say. <i>Pisidium abruptum</i> Hald.	Mass., Conn., N. Y., N. J., Md., Ohio, Wisc.
vi	3	355	xi	16-18	<i>ventricosum</i> Prime.	Massachusetts.

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vi	3	356	xi	13-15	Pisidium compressum <i>Prime.</i>	Mass., Me., N.Y.
vi	3	357	xi	19-21	rotundatum <i>Prime.</i>	Lake Superior.
vi	3	358	xi	21-23	tenellum <i>Gould.</i> <i>P. rubellum</i> <i>Prime.</i>	Lake Superior.
vi	3	359			obscurum <i>Prime.</i>	Ohio.
vi	3	359	xi	24-25	abditum <i>Hald.</i>	Columbia, Pa.
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vi	3	360		5-7	minus <i>Stimpson.</i> <i>Cyclas minor</i> Ad. et Migh.	Me., Vt., Mass., Conn., N. Y.
vi	3	361	xii	5-7	Kurtzii <i>Prime.</i>	Charleston, S.C.
vi	3	362	xii	8-10	ferrugineum <i>Prime.</i>	Mass., N. Y.
vi	3	363	xii	11-13	regulare <i>Prime.</i>	Miami canal, O.
vi	3	364	xii	14-16	arcuatum <i>Prime</i> (fossil).	Brattleboro', Vt.
vi	3	364	xii	17-19	zonatum <i>Prime.</i>	Greenwich, N.Y.
vi	3	365	xii	20-22	notatum <i>Prime.</i>	Greenwich, N.Y.
vi	3	366	xii	23-25	equilaterum <i>Prime.</i>	Me., Mass., N.Y.
vi	3	366			equale <i>Raf.</i> <i>Physemoda equale</i> Raf.	Ohio.
[A list of known species of <i>Pisidium</i> and their localities here follows.—W. G. B.]						
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vi	3	374				
vi	3	375	xiv	1	Bulinus vesicalis <i>Gould.</i>	Lower Califor'a.
vi	3	375	xiv	2	vegetus <i>Gould.</i>	San Juan, G. of
vi	3	376	xiv	3	excelsus <i>Gould.</i> [<i>B. elatus</i> in pl.—W. G. B.]	Califor'a. [Cal.]
vi	3	376	xiv	5	Acmæa paleacea <i>Gould.</i>	Santa Barbara.
vi	3	377	xiv	7	Crepidula explanata <i>Gould.</i>	Monterey, L. Ca.
vi	3	377	xiv	8	Bulla (Akeria) culcitella <i>Gld.</i>	Santa Barbara.
vi	3	378	xiv	9	(<i>Tornatina</i>) cerealis <i>Gld.</i>	Santa Barbara.
vi	3	379	xiv	4	Physa alata <i>Gould.</i>	Lower Califor'a.
vi	3	379	xiv	17	Sigaretus debilis <i>Gould.</i>	La Paz, G. of C.
vi	3	380	xiv	10	Narica ovoidea <i>Gould.</i>	Maz'tlan (bou'tl).
vi	3	380	xiv	19	Terebra arguta <i>Gould.</i>	
vi	3	381	xiv	11	Trochus marcidus <i>Gould.</i>	Monterey.
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vi	3	382			(<i>Monodonta</i>) pyriformis	San Diego.
vi	3	383	xiv	12	Modulus dorsuosus <i>Gould.</i>	Acapulco.
vi	3	383	xiv	15	Chemnitzia tenuicula <i>Gould.</i>	Santa Barbara.
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vi	3	384	xiv	14	Odostomia gravida <i>Gould.</i>	Santa Barbara.
vi	3	385	xiv	13	achates <i>Gould.</i>	Mazatlan.
vi	3	385	xiv	18	Fusus ambustus <i>Gould.</i>	Mazatlan.
vi	3	386	xiv	20	Erato leucophæa <i>Gould.</i>	Santa Barbara.
vi	3	386	xiv	21	Conus ravus <i>Gould.</i>	Santa Barbara.
vi	3	387	xiv	23	comptus <i>Gould.</i>	Santa Barbara.
vi	3	388	xiv	22	pusillus <i>Gould.</i>	Mazatlan.
vi	3	388	xv	1	Pholas ovidea <i>Gould.</i>	
vi	3	389	xv	5	Petricola bulbosa <i>Gould.</i>	Guaymas.
vi	3	390	xv	6	Osteodesma nitidum <i>Gould.</i>	Santa Barbara.
vi	3	390			Lutraria ventricosa <i>Gould.</i>	Mazatlan.
vi	3	391	xv	7	undulata <i>Gould.</i>	La Paz, L. Cal.

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vi	3	393	xv	4	<i>Macra mendica</i> Gould.	Mazatlan.
vi	3	394	xv	8	<i>Donax flexuosus</i> Gould.	Santa Barbara.
vi	3	394	xv	9	<i>obesus</i> Gould.	San Diego.
vi	3	395	xv	3	<i>Lucina orbella</i> Gould.	San D., Sta. B.
vi	3	396	xv	2	<i>Arthemis saccata</i> Gould.	Mazatlan.
vi	3	397	xvi	1	<i>Tellina miniata</i> Gould.	San Juan.
vi	3	398	xvi	2	<i>tersa</i> Gould.	Panama.
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vi	3	399	xvi	5	<i>gemma</i> Gould.	San Juan.
vi	3	399	xvi	4	(<i>Strigilla</i>) <i>fucata</i> Gould.	Mazatlan.
vi	3	400	xvi	5	<i>Cyrena altalis</i> Gould.	Mazatlan?
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vi	3	402			<i>Anodon ciconia</i> Gould.	Mexico?
vi	3	402	xvi	8	<i>Mytilus glomeratus</i> Gould.	San Francisco.
vi	3	403	xvi	9	<i>Lithodomus falcatus</i> Gould.	Monterey.
vi	3	404	xvi	7	<i>Avicula sterna</i> Gould.	Mazat., Panama.
vi	3	405	xvi	6	<i>Lima tetrica</i> Gould.	La Paz, G. of C.
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vi	3	407			<i>Venus aurantiaca</i> Sowb.	Santa Barbara.
vi	3	407			<i>gnidia</i> .	Mazatlan.
vi	3	407			<i>Artemis gigantea</i> .	La Paz.
vi	3	407			<i>Tellina regia</i> .	Mazatlan.
vi	3	407			<i>Burneti</i> Brod.	Lower Califor'a.
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					<i>P. Janellii</i> Desh.	
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vi	3	407			<i>Anomia macrochisma</i> .	Monterey.
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July,	1841.	A. A. Gould.	
i	32	<i>Paludina heterostropha</i> Kirtland = <i>P. ponderosa.</i>	
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¹ The shells described in the Proceedings from the Wilkes Exploring Expedition were also published in pamphlet form, with separate folios, as "The Expedition Shells."—W. G. B.

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iv	274	<i>gracilis Prime.</i>	Ohio.
iv	274	<i>constricta Anthony.</i>	Ohio.
iv	274	<i>transversa Say.</i>	Ky., Ohio, Ark., N. Y.
iv	275	<i>sphærica Anthony</i> (wood-cut).	Ohio.
iv	276	<i>ovalis Prime.</i>	N. Y., Ohio.
iv	276	<i>securis Prime.</i>	Mass., Vermont.
iv	277	<i>rosacea Prime.</i>	Schuylkill river.
iv	277	<i>cardissa Prime.</i>	Massachusetts.
iv	277	<i>pellucida Prime.</i>	Vt., Me., Cal., N. Y.
		<i>C. calyculata Adams, nec Dr.</i>	
iv	278	<i>partumeia Say.</i>	Me., Vt., Mass., Conn.,
		<i>C. cornea Lam. (var.)</i>	N. J., Penn., N. Y.,
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Conrad, Phillips, &c.—In Proceedings of the Academy of Natural Sciences of Philadelphia, occur the following:—

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ii				J. G. Anthony.	
[Several lists of Ohio shells presented by Mr. ANTHONY are given in this volume. As no descriptions are added, I have not quoted them. In Dec. 1841 (vol. ii, p. 161), <i>Melania abjecta</i> Hald. and <i>Paludina subsolida</i> Anth. occur.—W. G. B.]					
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v	10	Unio Aberti <i>Conr.</i>	Verdigris river, Ark.
Mar.	1852.	Lea. —Note on the Periodicity of Naiades: by ISAAC LEA.	
vi	54		
Apr.	1852.	Lea. —Remarks on Species and on Agassiz's Division of the	
vi	58	Naiades: by ISAAC LEA.	
Dec.	1852.	Conrad. —Notes on Shells, with descriptions of new species:	
		by T. A. CONRAD.	
vi	199	<i>Cryptodon</i> , preoc. = Schizothærus .	
vi	199	<i>Nuttallii</i> <i>Conr.</i> = Schizothærus Nuttallii .	
vi	199	<i>Unio turgidus</i> Lea = U. Mortoni <i>Conr.</i>	
Feb.	1853.	Conrad. —Synopsis of the Family of Naiades of North	
vi	243	America, with Notes, and a table of some of the genera and subgenera of the family, according to their geographical distribution, and descriptions of genera and subgenera: by T. A. CONRAD. [Also in pamphlet form.]	
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vi	244	Unio abacus <i>Hald.</i>	vi 244 Unio affinis <i>Lea.</i>
vi	244	Aberti <i>Conr.</i>	vi 244 amœnus <i>Lea.</i>
		<i>U. Lamarckianus</i> <i>Lea.</i>	vi 244 amygdalum <i>Lea.</i>
vi	244	acutissimus <i>Lea.</i>	vi 244 altilis <i>Conr.</i>

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vi	245	Unio angustatus Lea.	vi	246	Unio Clarkianus Lea.
vi	245	apiculatus Say. <i>U. asper</i> Jay, not Lea.	vi	246	clava Lam. <i>U. mytiloides</i> Raf.
vi	245	approximus Lea.			<i>scalenia</i> Raf.
vi	245	arctior Lea.			<i>cuneatus</i> Raf.
vi	245	arctatus Conr.			<i>modioliformis</i> Say.
vi	245	arcus Conr.			<i>clarus</i> Lea.
vi	245	argenteus Lea.	vi	247	coccineus Hild.
vi	245	asper Lea. <i>U. apiculatus</i> Jay (var.)	vi	247	collinus Conr.
vi	245	Barrattii Lea.	vi	247	complanatus Soland. <i>Mya complanata</i> Soland.
vi	245	Barnesianus Lea.			<i>U. complanatus</i> Lea.
vi	245	biangulatus Lea.			<i>violaceus</i> Speng.
vi	245	Bigbyensis Lea.			<i>coarctata</i> Lam.
vi	245	Binneyi Lea.			<i>purpurascens</i> Lam.
vi	245	Blandingianus Lea.			<i>rhombula</i> Lam.
vi	245	Bournianus Lea.			<i>carinifera</i> Lam.
vi	245	Brumbyanus Lea.			<i>Georgina</i> Lam.
vi	245	Boydianus Lea.			<i>sulcidens</i> Lam.
vi	245	Buckleyi Lea.			<i>glabrata</i> Lam.
vi	245	Buddianus Lea.			<i>rarisulcata</i> ? Lam.
vi	245	buxeus Lea.			<i>aurata</i> Raf.
vi	245	bullatus Raf. <i>U. verrucosus albus</i> Hild.			<i>jejunus</i> ? Lea.
		<i>pustulosus</i> Lea.			<i>Roanokensis</i> ? Lea.
vi	245	capax Green. <i>Symphynota globosa</i> Lea.	vi	247	concauus Lea.
		<i>U. capax</i> Küst.	vi	247	congaræus Lea.
vi	245	cælatus Conr.	vi	247	compressissimus Lea.
vi	246	caliginosus Lea.	vi	247	Conradicus Lea.
vi	246	callosus Lea.	vi	247	contrarius Conr.
vi	246	camptodon Say. <i>U. Sayi</i> Lea, not Tapp.	vi	247	constrictus Conr.
vi	246	capsæformis Lea.	vi	247	Cooperianus Lea.
vi	246	cardium Raf. <i>U. ventricosus</i> Barnes.	vi	247	cor Conr.
		<i>occidens</i> Lea.	vi	247	cordatus Raf. (Obovaria).
		<i>subovatus</i> Lea.	vi	247	creperus Lea.
		<i>ovata</i> Lam. (var. b?)	vi	247	crocatius Lea.
vi	246	carlosus Say. <i>U. ovata</i> Valen.	vi	247	Cumberlandianus Lea. <i>U. Cumberlandicus</i>
		<i>cariosus</i> Kust.	vi	247	<i>glaber</i> ? Lea. [Chenu.
		<i>Lampsilis cariosa</i> Agas.	vi	248	cuneolus Lea.
vi	246	Carolinianus Bosc. [MS. <i>U. obesus</i> Lea.	vi	248	Cuvierianus Lea
vi	246	castaneus Lea.	vi	248	cyphius Raf. <i>U. Esopus</i> Green.
vi	246	catillus Conr.	vi	248	cylindricus Say. <i>U. naviformis</i> Lam.
vi	246	cerinus Conr. <i>U. flavus</i> Lea, not Raf.			<i>Elliptio solenoides</i> Raf.
vi	246	cicatricosus Say. <i>U. varicosus</i> Lea.			<i>Thelidermu cylindrica</i>
vi	246	Cincinnatiensis Lea.			Swains.
vi	246	Claibornensis Lea. <i>U. obtusus</i> ? Lea.	vi	248	U. cylindricus Hild.
			vi	248	cyrenoides Phillipi.
			vi	248	dactylus Lea.
			vi	248	Dartensis Lea.
			vi	248	decisus Lea.

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vi	248	Unio declivis Say.	vi	249	Unio fraternus Lea.
		<i>U. geometricus</i> Lea.	vi	249	fulgidus Lea.
vi	248	delumbis Conr.	vi	250	furvus Conr.
		<i>U. modioliformis</i> Lea.			<i>U. Hanleyanus?</i>
vi	248	decoratus Lea.			<i>Troschelianus?</i>
vi	248	dilatatus Raf. (<i>Elliptio</i>).	vi	250	fuliginosa Lea.
		<i>U. cuprea</i> Raf.	vi	250	fuscatus Lea.
		<i>atroviolacea</i> Raf.	vi	250	Geddingsianus Lea.
		(<i>Obliquaria</i>).	vi	250	Georgianus Lea.
		<i>nasutus</i> Lam., not S.	vi	250	gibber Lea.
		<i>gibbosus</i> Barnes.	vi	250	Gibbesianus Lea.
		<i>arctior?</i> Lea. (y'ng).	vi	250	glaber Lea.
vi	248	discus Lea.	vi	250	glans Lea.
vi	248	dolabræformis Lea.			<i>U. Brumbyanus</i> Lea.
vi	248	dolabelloides Lea.	vi	250	Gouldii Lea.
vi	248	Dorfeuillianus Lea.	vi	250	graniferus Lea.
vi	248	dromas Lea.	vi	250	Greenii Conr.
		<i>U. caperatus</i> Lea.			<i>U. simplex</i> Lea.
vi	248	Duttonianus Lea.	vi	250	Griffithianus Lea.
vi	248	Edgarianus Lea.	vi	250	Haleianus Lea.
vi	248	Eastbrookianus Lea.	vi	250	Hayesianus Lea.
vi	248	exiguus Lea.	vi	250	hebes Lea.
vi	249	excultus Conr.	vi	250	heterodon Lea.
		<i>U. declivis</i> Lea, not Say.	vi	250	Holstonensis Lea.
vi	249	famelicus Gould.	vi	250	hyalinus Lea.
vi	249	fasciolaris Raf.	vi	250	Hydianus Lea.
		<i>U. phascolus</i> Hild.			<i>U. Claibornensis?</i> Lea.
		<i>sinuatus</i> Raf.	vi	250	icterinus Conr.
		<i>mucronatus</i> Barnes.			<i>U. fulvus</i> Lea.
		<i>planulatus</i> Lea.	vi	250	ineptus Lea.
		<i>cuneatus</i> Barnes.	vi	250	infurcatus Conr.
		<i>phascolus</i> Say.			<i>U. securiformis?</i> Conr.
		<i>planulata</i> Desh.	vi	250	intermedius Conr.
		<i>camelus</i> Lea.	vi	250	interruptus Raf.
vi	249	fasciatus Ann.			<i>U. brevidens</i> Lea.
		<i>U. crassus?</i> Say.	vi	251	Jayensis Lea.
		<i>carinatus</i> Barnes.	vi	251	jejunus Lea. [<i>ianus?</i>]
		<i>ellipticus</i> Barnes.	vi	251	Keinerianus Lea (<i>Kiener</i>).
vi	249	fasciolus Raf.	vi	251	Kirtlandianus Lea.
		<i>U. subangulatus</i> Lea.	vi	251	Kleinianus Lea.
vi	249	fatuus Lea.	vi	251	lanceolatus Lea.
vi	249	Fisherianus Lea.	vi	251	lapillus Say.
		<i>U. nasutus</i> Conr. (var.)			<i>U. fabalis</i> Lea.
vi	249	flavescens Lea.	vi	251	lævigatus Raf. (<i>Elliptio</i>).
vi	249	flavus Raf.			<i>U. lens</i> Lea.
		<i>U. rubiginosus</i> Lea.	vi	251	latiradiatus Conr.
vi	249	flexuosus Raf.			<i>U. interruptus</i> Lea.
		<i>U. foliatus</i> Hild.	vi	251	lazarus Lea.
vi	249	Floridensis Lea.	vi	251	Lecontianus Lea.
vi	249	folliculatus Lea.	vi	251	lenior Lea.
vi	249	Forbesianus Lea.	vi	251	Leseurianus Lea.
		<i>U. congarus?</i> Lea.	vi	251	lineatus Lea.
vi	249	Foremanianus Lea.	vi	251	lienosus Conr.
vi	249	fragosus Conr.			<i>U. obscurus</i> Lea.

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vi	251	Unio ligamentinus Lam. <i>U. fasciolus</i> Conr., not Raf.	vi	253	Unio nodiferus Conr. <i>U. prasinus</i> Lea, not Con.
		<i>multiradiatus</i> Lea.	vi	253	nodulatus Raf. <i>U. pustulatus</i> Lea.
vi	251	limatulus Conr. <i>U. Tuomeyi</i> Lea. [ria.]	vi	253	notatus Lea.
vi	251	lineolatus Raf. (<i>Obliqua</i> — <i>U. depressa</i> Raf., not <i>securis</i> Lea. [Lam.]	vi	253	Novi-Eboraci Lea.
vi	251	luridus Lea.	vi	253	nucleopsis Conr.
vi	251	luteolus Lam. [Barnes. <i>U. siliquoides</i> Conr., <i>inflatus</i> Barnes. <i>Lampsilis siliquoides</i>	vi	253	nexus Say. <i>U. arciformis</i> Lea.
vi	252	lugubris Lea. [Stimp.]	vi	253	notatus Lea.
vi	252	maculatus Conr. <i>U. Ravenelii</i> Lea.	vi	253	<i>U. similis</i> Lea.
vi	252	Masoni Conr.	vi	253	obliquus Lam. <i>U. obliquus</i> Fer.
vi	252	mæstus Lea.			<i>ebenus</i> Lea. [Barn.
vi	252	merus Lea.			<i>undatus</i> Desh., not <i>mytiloides</i> ? Swains., not Raf. [<i>quaria</i>].
vi	252	Menkianus Lea.	vi	253	obliquatus Raf. (<i>Obli</i> — <i>U. ridibundus</i> Say.
vi	252	metallicus Say. <i>U. cuprinus</i> Lea.	vi	253	<i>sulcatus</i> Lea.
vi	252	metanever Raf. <i>U. metanevus</i> Say. <i>nodosus</i> Barnes. <i>rugosus</i> ? Barnes. <i>metanever</i> Lea.	vi	253	obovalis Raf. <i>U. solidus</i> Lea.
vi	252	minor Lea.	vi	253	obtusus Lea.
vi	252	Mississippiensis Conr.	vi	253	occidentalis Conr.
vi	252	Mortoni Conr. <i>U. turgidus</i> Lea.	vi	254	ochraceus Say. [List. <i>Pectunculus fluviatilis</i> <i>Mytilus fluviatilis</i> Gmel. <i>Symphy. ochracea</i> Lea. <i>U. ochraceus</i> Conr. <i>rosaceus</i> ? Conr., not
vi	252	Mühlfeldianus Lea.	vi	254	olivarius Raf. [De Kay. <i>U. ellipsis</i> Lea.
vi	252	Monroensis Lea.	vi	254	Ogeecheensis Conr.
vi	252	Moussianus Lea.	vi	254	oratus Conr.
vi	252	Nashvillianus Lea.	vi	254	orbiculatus Hild. <i>U. abruptus</i> Say. <i>crassus</i> Conr.
vi	252	nasutus Say. <i>Mya nasuta</i> Wood. <i>U. rostratus</i> Valenc. <i>Eurinea nasuta</i> Agas.	vi	254	ovatus Say. [Barnes. <i>U. ventricosus</i> Desh., not <i>subovatus</i> Desh., not Lea.
vi	252	nebulosus Conr.			<i>occidens</i> ? Desh., not
vi	252	neglectus Lea.	vi	254	oviformis Conr. [Lea.
vi	252	nexus Say. <i>U. arciformis</i> Lea.	vi	254	pallescent Lea.
vi	253	nervosus Raf. <i>U. zig-zag</i> Lea. <i>donaciformis</i> .	vi	254	paliatus Lea.
vi	253	ngellus Lea.	vi	254	paludicolor Gould.
vi	253	niger Raf. <i>U. incrassatus</i> Lea. <i>gibber</i> ? Lea.	vi	254	papyraceus Gould.
vi	253	nigerrimus Lea.	vi	254	parvus Barnes.
vi	253	nigrinus Lea.	vi	254	paulus Lea.
vi	253	nitens Lea.	vi	254	pectorosus Conr. <i>U. perdis</i> Lea. <i>biangulatus</i> Lea.
			vi	254	pellucidus Lea.
			vi	254	penitus Conr.

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vi	254	Unio perovatus. <i>U. nux</i> Lea.			<i>U. Virginiana</i> Lam.
vi	254	perovalis Contr.			<i>Mya oblongata</i> Wood.
vi	254	pernodosus Lea.			<i>U. ochraceus</i> Desh., not
vi	255	pectitus Contr.			<i>radiatus</i> Con. [Say.
vi	255	personatus Say (fem'le). <i>U. capillaris</i> Lea.	vi	256	Unio Rangianus Lea. [MS.
		<i>pileus</i> Lea (male).	vi	256	Raveneli Contr.
vi	255	perstriatus Lea.			<i>U. confertus</i> Lea.
vi	255	Phillipsii Contr.			<i>Waterensis</i> Lea.
vi	255	pictus Lea.	vi	256	rectus Lam. [tio.]
vi	255	pilaris Lea.			<i>U. latissima</i> Raf. (Ellip-
vi	255	placitus Lea.			<i>praelongus</i> Barnes.
vi	255	planilateris Contr.			<i>rectus</i> Kust.
vi	255	plenus Lea.	vi	256	<i>Eurinea praelonga</i> Agas.
vi	255	plexus Contr.	vi	256	Reevianus Lea. [MS.
		<i>U. pliciferus</i> Lea.	vi	256	reflexus Raf.
		<i>subtrapezius</i> Phillipi.			<i>U. cornutus</i> Barnes.
		<i>carbonarius</i> Lea.	vi	256	regularis Lea.
vi	255	Powellii Lea.	vi	256	retusus Lam.
vi	255	politus Say.			<i>U. torsa</i> Raf.
		<i>U. brevis</i> Lam.			<i>obtusa</i> Cuv.
		<i>olivarius</i> Raf., var. 2.	vi	257	rivularis Contr. [Say.
		<i>brevis</i> Cronch.			<i>U. declivis</i> Contr., not
		<i>subrotundus</i> Lea, not	vi	257	Roanokensis Lea.
		<i>politus</i> Contr. [Raf.	vi	257	rosaceus De Kay.
vi	255	Prevostianus Lea.	vi	257	rotundatus Lam.
vi	255	prasinus Contr.			<i>U. suborbiculata</i> Lam.
		<i>U. Schoolcraftensis</i> Lea.			<i>decorticata</i> Raf.
		<i>nodiferus</i> Lea, not C.			<i>glebulus</i> Say.
vi	255	productus Contr.			<i>subglobosus</i> Lea.
vi	255	proximus Lea.	vi	257	<i>rotundatus</i> Lea.
vi	255	pullus Contr.	vi	257	rubellus Contr.
vi	255	pulvinulus Lea.	vi	257	ruber Raf.
vi	255	pumilus Lea.			<i>U. pyramidatus</i> Lea.
vi	255	puniceus Hald.			<i>coccineus</i> Jay, not
vi	255	purpuratus Lam.?	vi	257	rudis Contr. [Hild.
		<i>U. ater</i> Lea.			<i>U. Ravenelianus</i> Lea.
		<i>lugubris</i> Say.	vi	257	rufusculus Lea.
		<i>atra</i> Desh.	vi	257	Rumphianus Lea.
		<i>purpuratus</i> Lea.	vi	257	sagittiformis Lea.
		<i>Mya ventricosa</i> Soland.	vi	257	Sapotaleus Lea.
vi	256	purpuriatus Say.	vi	257	saxeus Contr.
		<i>U. Medellinus</i> Lea.	vi	257	satur Lea.
vi	256	pusillus Lea.	vi	257	securiformis Contr.
vi	256	pygmæus Lea.	vi	257	semigranosus F d. Busc.
vi	256	quadrolus Raf.	vi	257	Shepardianus Lea.
		<i>U. asperrimus</i> Lea.	vi	257	simus Lea.
		<i>lachrymosus</i> Lea.	vi	257	sintoxia Raf.
vi	256	radiatus Lam.	vi	257	sordidus Lea.
		<i>Mya radiata</i> Gmel.	vi	257	Sowerbianus Lea.
		<i>Mya Schrot.</i>	vi	257	sparsus Lea.
		<i>radiata</i> Dillwyn.	vi	257	spatulatus Lea.
		<i>pictorum tenuis</i> Chem.	vi	257	spinosus Lea.
			vi	257	splendidus Lea.

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vi	257	Unio stagnalis <i>Conr.</i>	vi	259	Unio verrucosus <i>Raf.</i>
vi	258	stapes <i>Lea.</i>			<i>U. tuberculatus</i> <i>Barnes.</i>
vi	258	stegarius <i>Raf.</i>	vi	259	viridis <i>Raf.</i>
		<i>U. irroratus</i> <i>Lea.</i>			<i>U. Tappanianus</i> <i>Lea.</i>
vi	258	Stewardsonii <i>Lea.</i>	vi	260	vibex <i>Conr.</i>
vi	258	Stonensis <i>Lea.</i>	vi	260	Whiteanus <i>Lea.</i>
vi	258	stamineus <i>Conr.</i>	vi	260	Zeiglerianus <i>Lea</i> (<i>Zeiglerianus?</i>)
vi	258	striatus <i>Lea.</i>	vi	260	Metaptera alata.
vi	258	strigosus <i>Lea.</i>			<i>Unio alata</i> <i>Say.</i>
vi	258	subinflatus <i>Conr.</i>			<i>Symphynota alata</i> <i>Lea.</i>
		<i>U. Hopetonensis?</i> <i>Lea.</i>			<i>Unio alatus</i> <i>Lea.</i>
vi	258	subplanus <i>Conr.</i>			<i>M. megaptera</i> <i>Raf.</i>
vi	258	subrotundus <i>Raf., y'ng.</i>			<i>Lymnadia alata</i> <i>Swains.</i>
		<i>U. striatus</i> <i>Raf., old.</i>			<i>Unio alatus</i> <i>Kust.</i>
		<i>circulus</i> <i>Lea.</i>	vi	260	fragilis.
vi	258	subtentus <i>Say.</i>			<i>Elliptio fragilis</i> <i>Raf.</i>
vi	258	subrostratus <i>Say.</i>			<i>Unio fragilis</i> <i>Swains.</i>
		<i>U. iris</i> <i>Lea.</i>			<i>fragilis</i> <i>Say.</i>
vi	258	symmetricus <i>Lea.</i>			<i>gracilis</i> <i>Barnes.</i>
vi	258	Tampicoensis <i>Lea.</i>			<i>Symphynota gracilis</i> <i>Lea.</i>
vi	258	tæniatus <i>Conr.</i>			<i>Unio gracilis</i> <i>Lea.</i>
		<i>U. pulcher</i> <i>Lea.</i>	vi	260	inflata.
vi	258	Taitianus <i>Lea.</i>			<i>Symphynota inflata</i> <i>Lea.</i>
vi	258	Tecomatensis <i>Lea.</i>			<i>Unio inflatus</i> <i>Conr.</i>
vi	258	Tennesseeensis <i>Lea.</i>			<i>Alabamensis</i> <i>Conr.</i>
vi	258	tener <i>Lea.</i>	vi	260	Ohiensis.
vi	258	tenerus <i>Ravenel.</i>			<i>Lastena Ohiensis</i> <i>Raf.</i>
		<i>U. tenebrosus</i> <i>Conr.</i>			<i>Unio laxissimus</i> <i>Lea.</i>
vi	258	tetralasmus <i>Say.</i>	vi	260	Plectomerus <i>Conr.</i> (n. g.)
vi	259	teres <i>Raf.</i>	vi	260	atromarginatus.
		<i>U. anodontoides</i> <i>Lea.</i>			<i>Unio atromarginatus</i> <i>Lea.</i>
vi	259	trabalis <i>Conr.</i>	vi	260	Boykianus.
		<i>U. Troostensis</i> <i>Lea.</i>			<i>Unio Boykianus</i> <i>Lea.</i>
vi	259	trigonus <i>Lea.</i>	vi	260	costatus.
vi	259	tortivus <i>Lea.</i> [ria.)			<i>Unio costatus</i> <i>Raf.</i>
vi	259	torulosus <i>Raf.</i> (<i>Obliqua-</i>			<i>undulatus</i> <i>Barnes.</i>
		<i>U. gibbosus</i> <i>Raf.</i>			<i>latecostatus</i> <i>Lea.</i>
		<i>perplexus</i> <i>Lea.</i>	vi	261	crassidens.
vi	259	triqueter <i>Raf.</i>			<i>Unio crassidens</i> <i>Lam.</i>
		<i>U. triangularis</i> <i>Barnes.</i>			<i>interruptus</i> <i>Say.</i>
		<i>formosus</i> <i>Lea.</i>			<i>trapezoides</i> <i>Lea.</i>
		<i>triangularis</i> <i>Lea.</i>	vi	261	Nicklinianus.
vi	259	truncatus <i>Raf.</i>			<i>Unio Nicklinianus</i> <i>Lea.</i>
		<i>U. elegans</i> <i>Lea.</i>	vi	261	perplicatus <i>Conr.</i>
vi	259	trossulus <i>Lea.</i>			<i>Unio atrocostatus</i> <i>Lea.</i>
vi	259	tuberosus <i>Lea.</i>	vi	261	plectophorus <i>Conr.</i>
vi	259	tumescens <i>Lea.</i>	vi	261	plicatus.
vi	259	undatus <i>Barnes.</i>			<i>Unio plicatus</i> <i>Say.</i>
vi	259	unicolor <i>Lea.</i>			<i>Peruviana</i> <i>Lam.</i>
vi	259	utriculus <i>Lea.</i>			<i>rariplicata</i> <i>Lam.</i>
vi	259	Vanuxemiensis <i>Lea.</i>			<i>Dombeyanus</i> <i>Val.</i>
vi	259	Vaughnianus <i>Lea.</i>			<i>undulatus</i> <i>Desh.,</i>
vi	259	velatus <i>Conr.</i>			not <i>Barnes.</i>
vi	259	venustus <i>Lea.</i>			

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Vol.	Pa.	Name.	Vol.	Pa.	Name.
		<i>Unio multiplicatus</i> Desh., <i>crassus</i> Bar. [not Lea. <i>plicata</i> Swains. <i>Hippopæus</i> Lea.	vi	262	Strophitus (Hemiodon) argenteus. <i>Anadonta argentea</i> Lea.
vi	261	Plectomerus Sloatianus. <i>Unio Sloatianus</i> Lea. <i>plectophorus?</i> Con.	vi	262	Arkansensis. <i>Anod. Arkansensis</i> Lea.
vi	261	Complanaria complanata. <i>Alas. complanata</i> Barn. <i>Symphy. complanata</i> Lea. <i>Unio complanata</i> Desh. <i>Katherina</i> Lea.	vi	262	calceolus. <i>Unio calceola</i> Lea. <i>Margaritana calceola</i>
vi	261	costata. <i>Alasm. costata</i> Raf. <i>rugosa</i> Barnes. <i>C. rugosa</i> Agas.	vi	263	Curreyanus. [Lea. <i>Marg. Curreyana</i> Lea.
vi	261	compressa. <i>Symphy. compressa</i> Lea. <i>Unio compressus</i> Conr. <i>C. alasmodontina</i> Stimp.	vi	263	deltoides. <i>Marg. deltoidea</i> Lea.
vi	262	Margaritana arcuata. <i>Alasm. arcuata</i> Barnes. <i>M. margaritifera</i> Lea, not Lin. <i>arcuata</i> Stimp.	vi	263	edentulus. <i>Alasm. edentula</i> Say. <i>Anod. edentula</i> De Kay. <i>edentula</i> Lea. <i>areolata</i> Swains.
vi	262	falcata Gould.	vi	263	Etowaosis Conr.
vi	262	monodonta. <i>Unio monodontus</i> Say. <i>Alasm. monodonta</i> Fer. <i>Unio Soleniformis</i> Lea.	vi	263	fabula. <i>Marg. fabula</i> Lea.
vi	262	Alasmodontia arcuata Lea.	vi	263	Hildrethianus. <i>Marg. Hildrethiana</i> Lea.
vi	262	confragosa Say. <i>Unio confragosa</i> Desh. <i>Marg. confragosa</i> Lea.	vi	263	Holstonia? <i>Marg. Holstonia</i> Lea.
vi	262	marginata Say. <i>Unio varicosa</i> Lam. <i>Mya rugulosa</i> Wood. <i>Marg. marginata</i> Lea. <i>A. marginata</i> De Kay.	vi	263	minor. <i>Marg. minor</i> Lea.
vi	262	truncata Say, MS. <i>A. marginata</i> Auc.	vi	263	radiatus Conr. [Journ. <i>Alasm. radiata</i> Sillim. <i>Marg. radiata</i> Lea.
vi	262	Leptodea lata Raf. <i>Unio dehiscens</i> Say. <i>oricens</i> Lea. <i>dehiscens</i> Lea. <i>Anodonta lata</i> Fer. <i>Unio latus</i> Say.	vi	263	Ravenelianus. <i>Marg. Ravenelianus</i> Lea.
vi	262	leptodon Raf. <i>Unio leptodon</i> Say. <i>planus</i> Barnes. <i>An. purpurascens</i> Swain. <i>Symph. tenuissima</i> Lea. <i>Unio tenuissima</i> Lea.	vi	263	Shæfferiana. <i>Anod. Shæfferiana</i> Lea.
			vi	263	tetragona. <i>Anod. tetragona</i> Lea.
			vi	263	unadilla De Kay.
			vi	263	undulatus. <i>Anod. undulata</i> Say. <i>rugosa</i> Swains. <i>Pennsylvanica</i> Lam <i>S. undulatus</i> Stimp.
			vi	263	virgatus Conr. <i>Anod. Wardiana</i> Lea.
			vi	263	Anodonta angulata Lea.
			vi	263	Benedictensis Lea.
			vi	263	Buchanensis Lea.
			vi	263	Californiensis Lea.
			vi	263	cataracta Say. <i>A. fluvialis</i> Lea.
			vi	263	cognata Gould.
			vi	263	Couperiana Lea.
			vi	263	cylindracea Lea.
			vi	263	decora Lea.

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vi	263	Anodonta declivis <i>Conr.</i>	vi	264	Anodonta Stewartiana <i>Lea.</i>
		<i>A. plana</i> <i>Lea.</i>			
vi	264	denigrata <i>Lea.</i>	vi	264	suborbiculata <i>Say.</i>
vi	264	excurvata <i>De Kay.</i>	vi	264	subcylindracea <i>Lea.</i>
vi	264	fragilis <i>Lam.</i>	vi	264	subvexa <i>Conr.</i>
vi	264	ferruginea <i>Lea.</i>	vi	264	teres <i>Conr.</i>
vi	264	Ferussaciana.	vi	264	virens <i>Lea.</i>
vi	264	Footiana <i>Lea.</i>	vi	264	Wahlamatensis <i>Lea.</i>
vi	264	gibbosa <i>Say.</i>			Notes on—
vi	264	gigantea <i>Lea.</i>	vi	264	Unio asper.
vi	264	glauca <i>Valen.</i>	vi	264	cariosus.
vi	264	grandis <i>Say.</i>	vi	265	cerinus.
		<i>A. corpulenta</i> <i>Coop., MS.</i>	vi	265	complanatus <i>Soland.</i>
vi	264	Harpentis <i>Lea.</i>	vi	265	clava.
vi	264	imbecilis <i>Say.</i>	vi	265	nodiferus <i>Conr.</i>
		<i>A. incerta</i> <i>Lea.</i>	vi	265	ochraceus <i>Say.</i>
vi	264	implicata <i>Say.</i>	vi	265	obliquus <i>Lam.</i>
		<i>A. Newtonensis</i> <i>Lea.</i>	vi	265	plexus <i>Conr.</i>
vi	264	impura <i>Say.</i>	vi	265	prasinus <i>Conr.</i>
vi	264	linneana <i>Lea.</i>	vi	266	purpuratus <i>Lam.</i>
vi	264	lugubris <i>Say.</i>	vi	266	quadrulus is not U. rugosus <i>Barnes.</i>
vi	264	Marryattana <i>Lea.</i>	vi	266	undatus.
vi	264	marginata <i>Say.</i>	vi	266	undulatus <i>Barnes.</i>
vi	264	Nuttalliana <i>Lea.</i>	vi	266	viridis <i>Raf.</i>
vi	264	oblita <i>Lea.</i>	vi	266	Anodonta cataracta <i>Say.</i>
vi	264	opaca <i>Lea.</i>	vi	266	marginata <i>Say.</i>
vi	264	Oregonensis <i>Lea.</i>	vi	267	Unio cuneatus <i>Raf.</i>
vi	264	ovata <i>Lea.</i>	vi	267	fasciolus <i>Raf.</i>
vi	264	pavonia <i>Lea.</i>	vi	267	simplex <i>Lea.</i>
vi	264	Pepiniana <i>Lea.</i>	vi	267	triangularis <i>Raf.</i>
vi	264	plicata <i>Hald.</i>			
vi	264	salmonia <i>Lea.</i>			

Table showing the geographical range of the Families Unionidæ, Muteladæ, and Mycetopodidæ, and some of the genera and subgenera.

ASIA.

Family **Unionidæ.**

SUBGENERA.

- vi 267 **Naia** *Swains.*
vi 267 **Lanceolaria** *Conr.*
vi 267 **Monodontina** *Conr.*

GENERA.

- vi 267 **Barbala** *Humph.*
vi 267 **Hyriopsis** *Conr.*
vi 267 **Nodularia** *Conr.*

EUROPE.

SUBGENERA.

- vi 267 **Mysca** *Taruton.*
vi 267 **Potamida** *Swains.*

AFRICA.

Family **Muteladæ.**

- vi 267 **Mutela** *Scopoli.*
vi 267 **Iridella** *Conr.*
vi 267 **Pleiodon** *Conr.*
vi 267 **Calliscapha** *Swains.*
Spatha *Lea.*

Family **Unionidæ.**

SUBGENUS.

- vi 267 **Cælatura** *Conr.*

AUSTRALIA.

Family **Unionidæ.**

- vi 267 **Hyridella** *Swains.*

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vi	267	Parreysia <i>Conr.</i> <i>U. multidentatus</i> Parreyss.			SOUTH AMERICA.
vi	267	Cucumaria <i>Conr.</i>			Family Muteladae . GENERA.
		NORTH AMERICA.	vi	267	Leila <i>Gray</i> .
		Family Unionidae . SUBGENERA.	vi	267	Paxyodon <i>Schum.</i>
vi	267	Eurinea <i>Raf.</i>	vi	267	Prisodon <i>Schum.</i> SUBGENUS.
vi	267	Lampsilis <i>Raf.</i>	vi	267	Iridea <i>Swains.</i>
vi	267	Canthyria <i>Swains.</i>			Fam. Mycetopodidae .
vi	267	Theliderma <i>Swains.</i>	vi	267	Mycetopus <i>D'Orb.</i>
vi	267	Cunicula <i>Swains.</i> GENERA.			Family Unionidae . GENERA.
vi	267	Metaptera <i>Raf.</i>	vi	267	Lamproscapha <i>Swains.</i>
vi	267	Strophitus <i>Raf.</i>	vi	267	Monocondylaea <i>D'Orb.</i>
vi	267	Lastena <i>Raf.</i>	vi	267	Byssodonta <i>D'Orb.</i> SUBGENUS.
vi	267	Complanaria <i>Swains.</i>	vi	267	Corrugaria <i>Conr.</i>
vi	267	Alasmodonta <i>Say</i> .			
		SUBGENERA OF UNIO.			
		NODULARIA <i>CONR.</i>			GLEBULA <i>CONR.</i> Louisiana.
vi	268	Unio Douglasiae <i>Gray</i> .	vi	268	Unio rotundatus <i>Lam.</i>
		IRIDEA <i>SWAINS.</i>			UNIOMERUS <i>CONR.</i> Southern States.
vi	268	Unio granosus <i>Lam.</i>	vi	268	Unio declivis .
vi	268	solisiana <i>D'Orb.</i>	vi	268	camptodon .
vi	268	Paranensis <i>Lea.</i>	vi	268	subcoceus .
vi	268	rhuaicoica <i>D'Orb.</i>	vi	268	Sayii .
vi	268	Fontainiana <i>D'Orb.</i>	vi	268	rivularis .
vi	268	hylaëa <i>D'Orb.</i>	vi	268	perrectus .
vi	268	Guaraniana <i>D'Orb.</i>	vi	268	symmetricus .
vi	268	Matoniana <i>D'Orb.</i>	vi	268	excultus .
vi	268	Psammoica <i>D'Orb.</i>			THELIDERMA <i>SWAINS.</i>
vi	268	charruana <i>D'Orb.</i>	vi	269	Unio Phillipsea .
		MYSCA <i>TURTON.</i>	vi	269	fragosus , &c.
vi	268	Unio pictorum .			LAMPSILIS <i>RAF.</i>
		LANCEOLARIA <i>CONR.</i>	vi	269	Unio ochraceus .
vi	268	Unio Grayanus <i>Lea.</i>	vi	269	ovatus , &c.
		CÆLATURA <i>CONR.</i>			EURINEA <i>RAF.</i>
vi	268	Unio Ægyptiacus <i>Caill.</i>	vi	269	Unio nasutus , &c.
		CUNICULA <i>SWAINS.</i> North America.			PROPOSED NEW GENERA.
vi	268	Unio fasciolaris .			CUCUMARIA <i>CONR.</i>
vi	268	lineolatus .	vi	269	Unio cucumoides <i>Lea.</i>
vi	268	Eastbrookianus .			HYRIOPSIS <i>CONR.</i>
vi	268	subtentus .	vi	269	Unio delphinus <i>Gruner.</i>
vi	268	cœlatus .			
vi	268	arcus , &c.			

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		MONODONTINA CONR.			CORRIGENDA.
vi	269	Margaritana Vonden- buschiana Lea. (<i>M. Buschiana</i> Conr.)	vi	269	<i>Unio angustatus</i> Lea.
			vi	269	<i>capax</i> Green (<i>Symphynota</i> <i>globosa</i> Lea).
			vi	269	<i>capsaformis</i> Lea. [rus.
			vi	269	<i>metaneu</i> read <i>U. metaneu-</i>
April, 1853.					
Vol.	Page.	Conrad. —Monograph of the genus <i>Fulgur</i> : by T. A.			
vi	316	CONRAD.			
		Name.			Locality.
vi	319	Fulgur carica (<i>Murex</i>) Gmelin. <i>Pyrula carica</i> Lam. <i>arum</i> Rve. non L.			Georgia to Mass.
vi	319	canaliculatum (<i>Pyrula</i>) Lam. <i>Buccinum ampullaceum</i> Lister. <i>Murex canaliculatus</i> L. <i>Pyrula canaliculata</i> Rve.			N. J., R. I., Mass.
vi	319	perversum (<i>Murex</i>) Linn. <i>Buccinum</i> , &c. Lister. <i>Pyrula perversa</i> Lam.			Southern coast.
vi	319	pyrum (<i>Bulla</i> Dillw.) <i>Buccinum</i> , &c. Lister. <i>Bulla ficus</i> β Gmelin. <i>Pyrula spirata</i> Lam., Rve. <i>F. pyruloides</i> Say. <i>Pyrula spirata</i> Rve.			Southern coast of Fla.
vi	319	candelabrum (<i>Pyrula</i>) Lam.			
vi	319	gibbosum Conrad. <i>Pyrula perversa</i> Kiener (var.)			Campeachy? U. S.?
		T. A. Conrad. —Notes on Shells.			
vi	320	Dreissena leucophæatus Conrad. <i>Mytilus leucophæatus</i> Conrad.			Virginia.
vi	320	Artemis concentrica. <i>A. acetabulum</i> Conrad (fossil). <i>Venus concentrica</i> Born.			Florida.
vi	320	elegans Conrad. <i>A. concentrica</i> Rve. non Born.			Florida.
vi	220	discus Reeve [Born. S'n and Middle States. <i>Cytherea concentrica</i> Chenu non			
Dec. 1853.		Conrad. —Synopsis of the genus <i>Cassidula</i> <i>Humphr.</i> , and			
vi	448	of a proposed new genus <i>Athleta</i> : by T. A. CONRAD. [The only American species.—W. G. B.]			
vi	449	Cassidula corona. <i>Pyrula patula</i> Brod. <i>Murex corona</i> Gmelin. <i>Fusus corona</i> Lam. <i>Buccinum ornatum</i> Say. <i>Melongen</i> <i>corona</i> .			Florida.

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		Conrad. —Omissions and Corrections to the Synopsis of North American Naiades: by T. A. CONRAD.			
vi	449	Unio perobliquus Conrad.			
vi	449	Rangianus Lea.			
vi	449	Sageri Conrad.			
vi	449	Stroph. Etowaensis.			
vi	449	Monodontina Buschiana Conrad.			
		<i>Margarita Von der Buschiana</i> Lea.			
vi	449	<i>Unio pectilus</i> = Scalenaria Agassiz.			
vi	449	<i>Aberti</i> = Crypogenia Agassiz.			
vi	449	<i>fragosus</i>	} = Quadrula Agassiz.		
vi	449	<i>nobilis</i>			
vi	449	<i>apiculatus</i>			
Mar.	1854.	Conrad. —Notes on Shells, with descriptions of three recent and one fossil species: by T. A. CONRAD.			
vii	31	<i>Gnathodon rostratum</i> Petit = G. flexuosum.			
vii	31	<i>trigonum</i> Petit = G. Lecontei Conrad?			
vii	31	<i>Trigonella</i> Conrad = Pachydesma.			
vii	31	Dolium album Conrad.			
vii	32	Alasmodonta ——— Conrad.			
Dec.	1854.	Lea. —Rectification of Mr. T. A. Conrad's Synopsis of the Family of Naiades, &c.: by ISAAC LEA.			
vii	236	[Mr. LEA's views of synonymy being included in his synopsis, are not quoted here. As regards errors of dates, the following are specified.—W. G. B.]			
		Name.	Mr. Conrad's date.	Mr. Lea's date of reading.	Mr. Lea's date of distribution.
vii	242	Unio lanceolatus Lea.	1832 }	1827	1828
vii	242	irroratus Lea.	1832 }		
vii	243	occidens Lea.	1832 }	1829	1829
vii	243	rubiginosus Lea.	1832 }		
		&c.			
Jan.	1855.	Conrad. —Descriptions of three new species of Unio: by T. A. CONRAD.			
		Name.		Locality.	
vii	256	Unio grandensis Conrad.		Rio Grande, Texas.	
vii	256	Taumilapasensis Conrad.		San Juan riv. Taumila-	
vii	256	Pearlensis Conrad.		Pearl riv., Miss. [pas.	
Feb.	1855.	Conrad. —Description of a new species of Melania: by T. A. CONRAD.			
vii	269	Melania exigua Conrad.		[Colorado Des., Cal.	
Apr.	1856.	Lea. —Descriptions of new Fresh-water Shells from California: by ISAAC LEA.			
viii	80	Pompholyx Lea (n. g.)		Sacramento riv., Cal. Shasta & Scott riv, Cal. Clear cr, Shasta Co, Ca.	
viii	80	effusa Lea.			
viii	80	Melania Shastaensis Lea.			
viii	80	nigrina Lea.			

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viii	80	<i>Physa triticea</i> Lea.	Shasta County, Cal.		
viii	80	<i>Planorbis Traskii</i> Lea.	Kern lke., Tulan Co., Ca.		
viii	80	<i>Lymnæa proxima</i> Lea.	Arroya S. Antonio, Ca.		
viii	80	<i>Ancylus patelloides</i> Lea.	Sacramento river, Cal.		
Notes on—					
viii	80	<i>Margaritana margaritifera</i> Lea. <i>Alasmodonta fulcata</i> Gould. <i>Yubensis</i> Trask.	Klamath and Yuba.		
viii	81	<i>Anodonta Wahlamatensis</i> Lea. <i>A. triangulata</i> Trask. <i>rotundovata</i> Trask.	Sacramento river.		
viii	81	<i>angulata</i> Lea. <i>A. feminalis</i> Gould. <i>Randalli</i> Trask.	Upper San Joaquin.		
viii	81	<i>Helix Oregonensis</i> Lea.	[Co., Cal.] P't Cypress, Monterey		
viii	81	<i>Nickliniana</i> Lea.	Tomales Bay & Dead Man's Island.		
viii	81	<i>Californiensis</i> Lea.	Point Cypress.		
viii	81	<i>Lymnæa exigua</i> Lea.	San Antonio Arroya.		
viii	81	<i>pallida</i> Adams.	San Antonio Arroya.		
viii	81	<i>Physa heterostrophæ</i> Say.	Los Angeles.		
viii	81	<i>Melania occata</i> Hinds.	Sacramento river.		
viii	81	(<i>Paludina</i>) <i>seminalis</i> Hinds.	Sacramento river.		
viii	81	<i>Planorbis trivolvus</i> Say.	Horn lake. [Valley.		
viii	81	<i>ammon</i> Gould.	Lagoons, Sacramento		
viii	92	Lea. —Descriptions of twenty-four new species of Exotic Uniones: by ISAAC LEA.			
viii	95	<i>Unio umbrosus</i> Lea.	[Medellin river, Mex.		
May,	1856.	Lea. —Descriptions of four new species of Exotic Uniones: by ISAAC LEA.			
viii	103	<i>Unio Coloradoensis</i> Lea.	[Rio Colorado, Texas		
Aug.	1856.	Lea. —Descriptions of fifteen new species of Exotic Melaniana: by ISAAC LEA.			
viii	145	<i>Melania rubida</i> Lea.	[Mexico.		
Sept.	1856.	Lea. —Description of the byssus in the genus Unio: by			
viii	213	ISAAC LEA.			
Nov.	1856.	Lewis. —List of Mollusca in Little Lakes, Otsego County, New York: in a letter from Dr. JAMES LEWIS.			
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viii	259	<i>Unio radiatus</i> Lam.	viii	259	<i>Pisidium ventricosum</i>
viii	259	<i>Anodonta</i> ——— ?			(? <i>obtusale</i> Pfr.) [<i>Prime.</i>
viii	259	<i>Cyclas similis</i> Say.	viii	259	<i>Lymnæa gracilis</i> Jay.
viii	259	<i>rhomboidea</i> Say.	viii	259	<i>columella</i> Say.
viii	259	<i>crocea</i> Say.	viii	259	<i>appressa</i> Say.
viii	259	<i>Pisidium variabile</i> Prime.	viii	260	——— ?
viii	259	<i>compressum</i> Prime.	viii	260	<i>disidiosa</i> Say.

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viii 260	<i>Lymnæa humilis</i> Say.	viii 260	<i>Ancylus</i> ———.
viii 260	<i>Planorbis trivolvus</i> Say.	viii 260	—————.
viii 260	var. <i>corpulentus</i> .	viii 260	<i>Paludina decisa</i> Say.
viii 260	<i>campanulatus</i> Say.	viii 260	<i>Amnicola limosa</i> Say.
viii 260	<i>bicarinatus</i> Say.	viii 260	(Pal.) <i>pallida</i> Lea?
viii 260	<i>hirsutus</i> Say.	viii 260	<i>Valvata tricarinata</i> Say.
viii 260	<i>deflectus</i> Say.	viii 260	var. <i>bicarinata</i> Lea.
viii 260	<i>parvus</i> Say.	viii 260	<i>sincera</i> Say.
viii 260	<i>Physa heterostropha</i> S.	viii 260	<i>striata</i> Lewis.
<p>Lea.—Descriptions of eleven new species of Exotic Uniones from Georgia: by ISAAC LEA. [For localities, vide "Journ. Acad. Nat. Sci. of Philad."—W. G. B.]</p>			
viii 262	<i>Unio Elliotti</i> Lea.	viii 262	<i>Unio vicinus</i> Lea.
viii 262	<i>gracilior</i> Lea.	viii 262	<i>subellipsis</i> Lea.
viii 262	<i>pullatis</i> Lea.	viii 262	<i>geminus</i> Lea.
viii 262	<i>favosus</i> Lea.	viii 262	<i>rostræformis</i> Lea.
viii 262	<i>rutilans</i> Lea.	viii 263	<i>Blandianus</i> Lea.
viii 262	<i>errans</i> Lea.		

Lea, W. G. Binney, &c.—In the new series of the Proceedings of the Academy of Natural Sciences of Philadelphia, occur the following:—

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Feb.	W. G. Binney. —Descriptions of American Land Shells: by W. G. BINNEY.	
18	<i>Helix intercisa</i> W. G. Binney.	Oregon.
	<i>H. Nickliniana</i> Binney (var.)	
19	<i>Succinea lineata</i> W. G. Binney.	Nebraska.
<p>Lea.—Descriptions of thirteen new species of Uniones from Georgia: by ISAAC LEA. [For localities, vide "Journ. Acad. Nat. Sci. of Philad."—W. G. B.]</p>		
	Name.	Name.
31	<i>Unio Blandianus</i> Lea.	32 <i>Unio excavatus</i> Lea.
31	<i>concestator</i> Lea.	32 <i>radians</i> Lea.
31	<i>extensus</i> Lea.	32 <i>rubellinus</i> Lea.
31	<i>pyriformis</i> Lea.	32 <i>umbrosus</i> Lea.
31	<i>Columbensis</i> Lea.	32 <i>apicinus</i> Lea.
32	<i>fallax</i> Lea.	32 <i>Othcaloogensis</i> Lea.
32	<i>intercedens</i> Lea.	

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1857. Page.	Name.	1857. Page.	Name.
March.	Lea. —Descriptions of six new species of Uniones from Alabama: by ISAAC LEA.		
83	Unio propinquus Lea.	83	Unio mundus Lea.
83	Florentinus Lea.	83	Thorntoni Lea.
83	biemarginatus Lea.	83	Mooresonianus Lea.
	Lea. —Descriptions of eight new species of Naiades from various parts of the United States: by ISAAC LEA.		
84	Unio pinguis Lea.	84	Unio Texasiensis Lea.
84	Higginsii Lea.	84	Anodonta Lewisii Lea.
84	Abbevillensis Lea.	84	lacustris Lea.
84	Jamesianus Lea.	84	modesta Lea.
	Lea. —Descriptions of three new species of Naiades: by ISAAC LEA.		
85	Unio Poeyanus Lea.	85	Unio Canadensis Lea.
85	Coyucan, Mex.		Montreal.
	Lea. —Descriptions of twelve new species of Naiades from North Carolina: by ISAAC LEA.		
85	Unio Wheatleyi Lea.	86	Unio spadiceus Lea.
85	percoarctatus Lea.	86	insulsus Lea.
85	gracilentus Lea.	86	striatulus Lea.
85	micans Lea.	86	macer Lea.
85	Genthii Lea.	86	contractus Lea.
86	Emmonsii Lea.	86	Anodonta virgulata Lea.
	I. Lea. —Note on—		
101	Unio spinosus.		
	Lea. —Descriptions of six new species of Fresh-water and Land Shells of Texas and Tamaulipas, from the collection of the Smithsonian Institution: by ISAAC LEA.		
101	Unio Berlandierii Lea.	102	Helix (Polygyra) Couch-
102	Popeii Lea.		iana Lea.
102	Bairdianus Lea.	102	Tamaulipasensis Lea.
102	Anodonta Henryiana Lea.		
May.	I. Lea.		
104	<i>Unio umbrosus</i> = U. umbrans Lea.		
104	<i>Wheatleyi</i> = U. Catawbensis Lea.		
June.	Conrad. —Descriptions of two new genera of Shells: by T. A. CONRAD.		
165	Gonidea Conr. (n. g.)	165	Gonidea feminalis Gld.
165	Randalii Trask.		<i>Anodon feminalis</i> Gld.
	<i>Anodon Randalii</i> Trask.	166	? Anodon angulata Lea.

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1857. Page.	Name.	Locality.
	Conrad. —Description of a new genus of the Family Dreis- senidae: by T. A. CONRAD.	
167	Mytilopsis Conrad (nov. gen.)	Virginia.
167	leucophæatus Conrad.	
	<i>Mytilus leucophæatus</i> Conrad.	
	Lea. —Descriptions of twenty-seven new species of Uniones from Georgia: by ISAAC LEA.	
	[For localities, vide "Journ. Acad. Nat. Sci. of Philad."—W. G. B.]	
	Name.	Page.
169	Unio subgibbosus Lea.	171
169	Savannahensis Lea.	171
169	virens Lea.	171
169	sublatus Lea.	171
169	obnubilus Lea.	171
169	opacus Lea.	171
169	similis Lea.	171
170	æquatus Lea.	171
170	naviculoides Lea.	172
170	viridicatus Lea.	172
170	subflavus Lea.	172
170	sudus Lea.	172
170	tetricus Lea.	172
170	Woodwardius Lea.	
	Name.	Name.
	Unio tenebricus Lea.	
	rufus Lea.	
	modicus Lea.	
	denigratus Lea.	
	fumatus Lea.	
	purpurellus Lea.	
	penicillatus Lea.	
	Plantii Lea.	
	subniger Lea.	
	bulbosus Lea.	
	Macouensis Lea.	
	obfuscus Lea.	
	aquilus Lea.	
Oct.	W. G. Binney. —Notes on American Land Shells, No. 2: by W. G. BINNEY.	
	Name.	Locality.
183	Helix (Polygyra) acute-dentata W. G. Binney.	Sinaloa, Mexico.
183	(Polygyra) Loisa W. G. Binney.	Sinaloa, Mexico.
184	Mooreana W. G. Binney.	Washington Co., Tex.
185	cultellata Thompson.	Contra Costa Co., Cal.
185	anachoreta W. G. Binney.	California.
185	aruginosa Gld. prec.= H. arrosa Gld.	
186	tholus W. G. Binney (<i>Polygyra</i>).	Texas.
186	kopnodes W. G. Binney.	Alabama.
187	friabilis W. G. Binney.	Illinois.
187	redimita W. G. Binney.	California? Oregon?
188	Bulimus Dormani W. G. Binney.	St. Augustine, Fla.
189	Glandina corneola W. G. Binney.	Florida?
189	parallela W. G. Binney.	Louisiana.
	Notes on—	
	Name.	Page.
188	Helix Dupetithouarsi	189
188	labiosa Gould. [<i>Desh.</i>]	189
188	Californiensis Lea.	189
188	sportella Gould.	180
188	loricata Gould.	189
189	Rugeli Shuttl.	190
	Name.	Name.
	Helix mordax Shuttl.	
	multilineata Say.	
	clausa Say.	
	vincta Val.	
	dentifera Binney.	
	Nuttalliana Lea.	

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1857. Page.	Name.	1857. Page.	Name.
190	Helix Vancouverensis	191	Helix Buffoniana Pfr.
	<i>egena</i> Say. [Lea.]	191	<i>inflecta</i> Say.
190	<i>fallax</i> Say.	191	<i>polychroa</i> Binney.
190	<i>minutissima</i> Lea.	191	<i>selenina</i> Gould.
190	<i>costata</i> Müll.	191	<i>tenuistriata</i> Binney.
190	<i>glaphyra</i> Say.	191	<i>auriculata</i> Say.
190	<i>saxicola</i> Gld. non Pfr.	192	<i>elevata</i> Say.
190	<i>lucubrata</i> Binney non	192	<i>stenotrema</i> Fer.
190	<i>subplana</i> Binn. [Say.]	192	Bulimus dealbatus Say.
190	<i>intertexta</i> Binney.	192	Achatina pellucida Pfr.
191	<i>septemvolva</i> Say.	192	Bulimus virgulatus Pfr.
191	<i>suppressa</i> Say.	192	Glandina truncata Binney.
191	<i>plicata</i> Say.	192	Helicina orbiculata Say.
191	<i>leporina</i> Gould.	192	<i>chrysocheila</i> Binney.
191	<i>maxillata</i> Gould.		
193	Notes on Say's types of American Land Shells in the Academy's collection.		
1858. March.			
13, 14	I. Lea. —Notes on the Geographical distribution of—		
	Name.	Locality.	
14	Unio rubiginosus Lea.	43° N., 37° W. and 50°	
14	<i>luteolus</i> Lam.	N., and Fort Clark,	
14	<i>lævissimus</i> Lea.	Upper Missouri, &c.	
14	<i>occidens</i> Lea.		
14	<i>anodontoides</i> Lea.		
14	<i>asperrimus</i> Lea.		
14	<i>elegans</i> Lea.		
14	<i>rectus</i> Lam.		
14	<i>zigzag</i> Lea.		
14	<i>alatus</i> Say.		
14	<i>undulatus</i> Barnes.		
14	Anodonta Ferussaciana Lea.		
14	<i>decora</i> Lea.		
14	Margaritana complanata Lea.		
	Lea. —Descriptions of new species of <i>Unio</i> from Tennessee, Alabama, and North Carolina: by ISAAC LEA.		
40	Unio turgidulus Lea.	Cumberland riv., Ten.	
		and Florence, Ala.	
40	<i>perradiatus</i> Lea.	Florence, Ala.	
40	Meredithii Lea.	Tenn. r., Florence, Ala.	
40	<i>Pybasii</i> Lea.	Tenn. r., Florence, Ala.	
40	<i>virescens</i> Lea.	Tenn. r., Florence, Ala.	
41	Neusensis Lea.	Neuse river, N. C.	
41	<i>purus</i> Lea.	Neuse river, N. C.	
41	<i>exacutus</i> Lea.	Neuse river, N. C.	

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1858. Page.	Name.	Locality.
	Lea. —Descriptions of a new <i>Helix</i> and two new <i>Planorbis</i> : by ISAAC LEA.	
41	<i>Helix Clarkii</i> Lea.	Cherokee Co., N. C.
41	<i>Planorbis Wheatleyi</i> Lea.	Montgomery Co., Ala.
41	<i>Newberryi</i> Lea.	Klamath lake & Canoe creek, Cal.
May.		
114	Lea. —Observations on the Anatomy of <i>Unio</i> : by ISAAC LEA.	
	W. G. Binney. —Notes on American Land Shells, No. 3: by W. G. BINNEY.	
114	<i>Succinea Haydeni</i> W. G. Binney.	Nebraska.
115	<i>Helix Cooperi</i> W. G. Binney.	Nebraska.
115	<i>Newberryana</i> W. G. Binney.	California.
116	<i>Bulimus patriarcha</i> W. G. Binney.	Buena Vista.
June.		
135	I. Lea. —Anatomy of— <i>Unio rubiginosus</i> Lea.	
	Lea. —Descriptions of seven new species of <i>Margaritana</i> and four new species of <i>Anadonta</i> : by ISAAC LEA.	
138	<i>Margaritana Elliottii</i> Lea.	Georgia.
138	<i>triangulata</i> Lea.	[For localities, vide quotations from Jour.]
138	<i>Connasaugaensis</i> Lea.	
138	<i>Etowahensis</i> Lea.	
138	<i>Gesnerii</i> Lea.	
138	<i>Tombecheensis</i> Lea.	
138	<i>Spillmanii</i> Lea.	
138	<i>Anodonta Hallenbeckii</i> Lea.	
139	<i>Gesnerii</i> Lea.	
139	<i>Dariensis</i> Lea.	
139	<i>Danielsii</i> Lea.	
July.		
	Lea. —Descriptions of twelve new species of <i>Uniones</i> and other Fresh-water Shells of the United States: by ISAAC LEA.	
165	<i>Unio Boswellensis</i> Lea.	Georgia, vide Journal.
165	<i>Postellii</i> Lea.	Georgia, vide Journal.
165	<i>Neislerii</i> Lea.	Georgia, vide Journal.
166	<i>Prattii</i> Lea.	Georgia, vide Journal.
166	<i>Chattanoogaensis</i> Lea.	Georgia, vide Journal.
166	<i>Downiei</i> Lea.	Georgia, vide Journal.
166	<i>Satillaensis</i> Lea.	Georgia, vide Journal.
166	<i>Hazelhurstianus</i> Lea.	Georgia, vide Journal.
166	<i>Melania Postellii</i> Lea.	Georgia.
166	<i>Paludina Elliottii</i> Lea.	Georgia.
166	<i>Lymnea Haydenii</i> Lea.	Yellowstone.
166	<i>Ancylus Newberryi</i> Lea.	Klamath lake, Cal.

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
Nov.	W. G. Binney. —Notes on American Land Shells, No. 4: by W. G. BINNEY. [The cross references of synonyms in the following catalogues are omitted.—W. G. B.]		
	I.	198 29	Helix Pandoræ Forb.
	Familia Limacea.	198 30	<i>H. damascenus</i> Gould.
197 1	Arion foliatus Gould.	198 31	ramentosa Gould.
197 2	Limax Columbianus Gould.		redemita W. G. Binn.
	Familia Helicea.	198 32	<i>H. Nickliniana</i> (var.) Binn.
197 3	Succinea cingulata Forbes.	198 33	reticulata Pfr.
197 4	Nuttalliana Lea.		sportella Gould.
197 5	Oregonensis Lea.		SPECIES EXCLUSA.
197 6	rusticana Gould.	198	Helix Sagraiana Orb.
	SPECIES EXCLUSA.	198 34	Bullmus Californicus Rve.
197	Succinea aperta Lea.	198 35	chordatus Pfr.
197 7	Helix acutedenta W. G. Binn.	198 36	excelsus Gould.
	? var. ♂ H. Loisa W. G. B.		<i>B. elatus</i> Gould, in tab.
197 8	anachoreta W. G. Binn.	198 37	Humboldti Rve.
197 9	areolata Pfr.		<i>B. Mexicanus</i> Val., nec Lam.
197 10	arrosa Gould in litteris.		<i>Mexicanus</i> Pfr. (excl. <i>B. Mexicanus</i> Val.)
	<i>H. æruginosa</i> Gould.	198 38	Laurentii Sowb.
197 11	aspersa Müll. ?	198 39	Mexicanus Lam.
197 12	Californiensis Lea.		<i>Cochlogena vittata</i> Fer.
	<i>H. vincta</i> Val.	198 40	vegetus Gould.
197 13	Columbiana Lea.		(<i>B. pallidior</i> Sowb.)
	<i>H. labiosa</i> Gould.	198 41	vesicalis Gould.
197 14	devia Gould.	198 42	zebra Müll.
	<i>H. Baskervillei</i> Pfr.	198 43	Ziegleri Pfr.
197 15	Dupetithouarsi Desh.	198 44	Achatina Californica Pfr.
	<i>H. Oregonensis</i> (junior) Lea.		SPECIES EXCLUSA.
197 16	exarata Pfr. ?	198	Achatina Albersi Pfr. = Glandina
197 17	fidelis Gray.		turris Pfr. = Glandina .
	<i>H. Nuttalliana</i> Lea.	198 45	Glandina Albersi Pfr.
197 18	germana Gould.	198 46	turris (<i>Achatina</i>) Pfr. [Carp.
197 19	infumata Gould.		<i>G. Albersi</i> var. <i>turrita</i> P. P.
197 20	intercisa W. G. Binn.		<i>Oleacina turris</i> Gr. et Pfr.
	<i>H. Nickliniana</i> (var.) Binn.		Familia Auriculacea.
197 21	Kelletti Forbes.		Sub-familia Melampea.
197 22	levis Pfr.	198 47	Melampus olivaceus Carp.
197 23	Loisa W. G. Binn.		Familia Aciculacea.
	(an <i>H. acutedentatæ</i> var. ?)	198 48	Truncatella Californica Pfr.
197 24	loricata Gould.		<i>T. ———?</i> Carp.
	<i>H. Lecontii</i> Lea.		II.
197 25	Mazatlanica Pfr.		Familia Limacea.
197 26	Mormonum Pfr.	198 49	Vaginulus Floridianus Binn.
197 27	Newberryana W. G. Binn.		
197 28	Nickliniana Lea.		
	<i>H. nemoraviga</i> Val.		
	<i>arborescentum</i> Val.		
	<i>Californiensis</i> Pfr.		

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
	SPECIES EXCLUSÆ.		
198	<i>Vaginulus flexuolaris</i> Grat.	199	<i>Philomycus dorsalis</i> Binney = Tebennophorus dorsalis .
198	<i>fuscus</i> Grat.	199	<i>flexuolaris</i> Raf.
198	<i>oxyurus</i> Grat.	199	<i>fuscus</i> Raf.
198	<i>quadrulus</i> Grat.	199	<i>lividus</i> Gr. et Pfr.
198 50	Tebennophorus Carolinensis (<i>Limax</i>) Bosc.	199	<i>nebulosus</i> Gr. et Pfr.
	<i>Limax Carolinianus</i> DeRoissy.	199	<i>Testacina</i> Raf.
	<i>Carolinensis</i> Fer.	199	<i>Urcinella</i> Raf.
	<i>marmoratus</i> De Kay.	199	<i>Zilotea</i> Raf.
	<i>togata</i> Gould.	199	<i>Oxyurus</i> Raf.
	<i>Philomycus Carolinensis</i> Fer.	199	<i>quadrilus</i> Raf.
	<i>T. Carolinensis</i> Binn.		Familia Helicea.
198 51	dorsalis Binn.	199 57	Vitrina angelicæ Beck.
	<i>Philomycus dorsalis</i> Binn.		<i>Helix pellucida</i> Fabr.
	<i>Limax dorsalis</i> De Kay.		<i>domestica</i> Ström.
198 52	Arion empiricorum Fer.	199 58	<i>limpida</i> Gould.
198 53	hortensis Fer.		<i>V. pellucida</i> Say.
	SPECIES EXCLUSA.		<i>Americana</i> Pfr.
	<i>Arion foliatus</i> Gould.	199 59	Succinea aurea Lea.
198 54	Limax agrestis Müll.		<i>S. ovalis</i> teste Anthony.
	<i>L. tunicata</i> Gould.	199 60	<i>avara</i> Say.
199 55	campestris Binn.		<i>S. Wardiana</i> Lea.
199 56	variegatus Fer.	199 61	var. <i>major</i> .
	<i>L. flavus</i> Binn.	199 62	campestris Say.
	SPECIES EXCLUSÆ.	199 63	concordialis Gould.
199	<i>Limax Carolinianus</i> De Roissy =		<i>S. munita</i> Binn.
	Tebennophorus Carolin-	199 64	<i>effusa</i> Shutt.
	ensis.	199 65	Groenlandica Beck.
199	<i>Carolinensis</i> Fer. = Tebennophorus Carolinensis.	199 66	Haydeni W. G. Binn.
199	<i>Columbianus</i> Gould.		var. <i>minor</i> .
199	<i>dorsalis</i> De Kay = Tebennophorus dorsalis.	199 67	inflata Lea.
199	<i>fuliginosus</i> Gould.		<i>S. campestris</i> , var., teste Binn.
199	<i>gracilis</i> Raf.	199 68	lineata W. G. Binn.
199	<i>marmoratus</i> De K., vide Tebennophorus Carolinensis.	199 69	luteola Gould.
199	<i>olivaceus</i> Gould.		obliqua Say.
199	<i>togata</i> Gld. = Tebennophorus Carolinensis.		<i>S. ovalis</i> Say.
	E LIMACEIS EXCLUSÆ.	199 70	<i>campestris</i> Gould.
199	<i>Eumelus</i> Raf.	199 71	<i>lineata</i> De Kay.
199	<i>lividus</i> Raf.		<i>Cochlohydra ovalis</i> Fer.
199	<i>nebulosus</i> Raf.	199 72	ovalis Gould non Say.
199	<i>Deroceras</i> Raf.	199 73	retusa Lea.
199	<i>gracilis</i> Raf.		<i>S. ovalis</i> Binn.
199	<i>Philomycus</i> Raf.	199 74	<i>campestris</i> Anthony.
199	<i>Carolinensis</i> Fer. = Tebennophorus Carolinensis.	200	Salleana Pfr.
		200	Totteniana Lea.
			<i>S. obliqua</i> Binn. nec Say.
			vermeta Say = <i>S. avara</i> Say.
			SPECIES EXCLUSÆ.
			<i>Succinea amphibia</i> Dr.
			<i>putris</i> Linn.

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
200 75	Helix albolabris Say. <i>Helicogena albolabris</i> Fer. <i>H. rufa</i> De Kay (junior). var. <i>dentata</i> .	200 90	var. <i>laminifera</i> . Helix chersina Say. <i>H. fulva</i> teste Chemn.
200 76	alternata Say. <i>Helicella alternata</i> Fer. <i>H. scabra</i> Lam. <i>radiata</i> Gmel. <i>H. infecta</i> Pfr. <i>strongyloides</i> Pfr.? var. 1. <i>albina</i> . 2. <i>Australis</i> . 3. <i>carinata</i> (<i>H. mordax</i> 4. <i>laevigatior</i> . [Sh.?)	200 91	Clarkii Lea.
200 77	appressa Say. <i>H. linguifera</i> Lam. <i>Helicodonta linguifera</i> Fer. var. <i>a</i> Say.	200 92	clausa Say. <i>H. Pennsylvanica</i> Pfr.
200 78	arborea Say. <i>Helicella arborea</i> Fer. (<i>H. ni-</i>	201 93	concava Say. <i>H. planorboides</i> Pfr. <i>Helicella planorboides</i> Fer.
200 79	Ariadnæ Pfr. [<i>tidæ</i> var.) <i>H. Couchiana</i> Lea.	201 94	Cooperi W. G. Binn.
200 80	aspersa Müll.	201 95	Cumberlandiana (<i>Carocolla</i>). <i>H. Cumberlandiana</i> Binn.
200 81	asteriscus Morse. <i>H. minutissima</i> Gld., nec Lea.	201 96	demissa Binn.
200 82	auriculata (<i>Polygyra</i>) Say. <i>H. auriculata</i> Binn. <i>Helicodonta auriculata</i> Fer. var. <i>minor</i> Fer.? Conf. H. uvulifera . [Binn.? <i>H. auriculata</i> var. <i>avara</i>	201 97	dentifera Binn.
200 83	avara (<i>Polygyra</i>) Say. <i>H. avara</i> De Kay. <i>auriculata</i> Binn. Sayii Wood. <i>Helicodonta avara</i> Fer.	201 98	divesta Gould. <i>H. abjecta</i> Gould. <i>dejecta</i> Gould.
200 84	barbigera Redf.	201 99	Dorfeuilliana (<i>Polygyra</i>) Lea. <i>H. fatigiata</i> Binn. <i>Dorfeuilliana</i> Bld. nec Pfr.
200 85	bucculenta Gould. <i>H. thyroides</i> (var. β) Pfr.? <i>Helicodonta thyroides</i> (var. β) var. <i>minor</i> . [Fer.?	201 100	Edgariana (<i>Carocolla</i>) Lea. <i>H. Edgariana</i> Pfr. <i>spinosa</i> (var.) Binn.
200 86	bulbina Desh.	201 101	Edwardsi Bld.
200 87	capsella Gould. <i>H. rotula</i> Gould. <i>placentula</i> Shutt.	201 102	egena Say. non <i>H. egena</i> Gould.
200 88	cellaria Müll. ? <i>H. glaphyra</i> Say, nec Pfr. <i>Helicella glaphyra</i> Fer.	201 103	electrina Gould. <i>H. nitidosa</i> (var.) Pfr. <i>pura pars</i> Chemn.
200 89	cereolus Mühl. <i>Polygyra septemvolva</i> Say. <i>H. septemvolva</i> Binn. <i>Helicodonta septemvolva</i> Fer. <i>H. planorbula</i> Lam.	201 104	elevata Say. <i>Helicodonta Knoxvilleana</i> Fer. <i>H. Tennesseeensis</i> (jun.) Lea.
		201 105	Ellioti Redf.
		201 106	exigua Stimp. <i>H. annulata</i> Case. <i>striatella</i> (jun.) teste Gld.
		201 107	exoleta Binn. <i>H. albolabris</i> δ <i>unidentata</i> Pfr. <i>albolabris</i> (var.) D. Chemn. <i>Helicodonta albolabris</i> (var.) <i>H. zaleta</i> Binn. [Fer.
		201 108	Fabricii (<i>Petasia</i>) Beck. <i>H. Fabricii</i> Müll. <i>Hammonis</i> Ström.? <i>nitida</i> Fabr.? <i>alliaria</i> Forbes.
		201 109	fallax Say. <i>H. tridentata</i> Binn.
		201 110	fatigiata (<i>Polygyra</i>) Say. <i>H. fatigiata</i> Binn. <i>Texasiana</i> (var.) B. Chemn. <i>Texasiana</i> β Pfr. <i>Dorfeuilliana</i> Desh.

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
	<i>Helicina fastigiata</i> De Kay.	202 127	Helix inornata Say.
201 111	Helix friabilis W. G. Binn.		<i>H. glaphyra</i> Pfr.
	<i>H. lucubrata</i> Pfr. in litt.	202 128	interna Say.
201 112	fuliginosa Binn.		<i>H. pomum</i> -Adami Green
	<i>H. capillacea</i> Pfr.		var. albina .
	<i>Omphalina cuprea</i> Raf. ?	202 129	intertexta Binn.
202 113	griseola Pfr.		var. carinata .
	<i>H. splendida</i> An.	202 130	jejuna Say.
	<i>cicercula</i> Fer. MS.		<i>H. Mobiliana</i> Lea.
	<i>Brandybæne pisum</i> Beck.	203 131	kopnodes W. G. Binn.
	<i>H. albozonata</i> Binn. ?	203 132	labyrinthica Say.
202 114	gularis Say.		<i>Helicodonta labyrinthica</i> Fer.
	<i>H. bicostata</i> Pfr.	203 133	lævigata Pfr. (excl. <i>H. inor-</i>
	<i>Helicodonta gularis</i> Fer.		<i>Helicella lævigata</i> Fer. [nata.
	<i>Helicostyla Rafinesquea</i> Fer. ?		<i>H. inornata</i> Rve.
	var. umbilicata .		<i>lucubrata</i> Binn.
202 115	Gundlachi Pfr.		<i>fuliginosa</i> Binn.
	<i>H. pusilla</i> Pfr.		var. major Pfr. (an <i>H. lævi-</i>
	<i>egena</i> Gould, nec Say.	203 134	lasmodon Phill. [guta Rve. ?]
202 116	Hazardi Bland.		? <i>H. macilenta</i> Shutt.
	<i>Polygyra plicata</i> Say.	203 135	leporina Gould.
	<i>H. fatigiata</i> Binn.		<i>H. pustula</i> (var. β) Pfr.
	<i>Texasiana</i> Pfr.	203 136	liger Say.
	<i>Dorfeuilliana</i> Desh.		<i>Helicostyla Rafinesquea</i> Fer. ?
	<i>Troostiana</i> W. G. Binn.		<i>H. Rafinesquea</i> Pfr.
	<i>Helicina plicata</i> De Kay.		<i>Wardiana</i> Lea.
202 117	Hindsii Pfr.	203 137	limatula Ward in Binn.
202 118	hippocrepis Pfr.	203 138	lineata Say.
202 119	hirsuta Say.		<i>Helicella lineata</i> Fer.
	<i>H. fratern</i> Wood.		<i>Planorbis parallelus</i> Say ?
	<i>sinuata</i> γ Gmelin.	203 139	major Binn.
	<i>isognomostomus</i> γ Gmelin.		<i>H. albolabris</i> Pfr.
	<i>Helicodonta hirsuta</i> Fer.		<i>Helicogena albolabris</i> γ Fer.
	<i>Tridopsis hirsuta</i> Woodw.	203 140	microdonta Desh. in Fer.
	<i>Stenostoma convexa</i> Raf.		<i>H. plana</i> Dunker.
	<i>H. porcina</i> (junior?) Say.	203 141	minuscule Binn.
202 120	hispid Linn.		<i>H. minutalis</i> Mor., nec Fer.
202 121	Hopetonensis Shutt.		<i>apex</i> Rve.
	<i>H. tridentata</i> Binn.		<i>Lavelleana</i> Orb. in textu.
202 122	hortensis Müll.		<i>Mauriniana</i> Orb. in tab.
	<i>H. nemoralis</i> Stimp.	203 142	minutissima Lea.
	<i>subglobosa</i> Binn.	203 143	Mitchelliana Lea.
202 123	hydrophila Ingalls.		<i>H. clausa</i> Binn.
	<i>H. lucida</i> Drap.		<i>Mitchella</i> Kirt. ?
202 124	incrusted Poey.	203 144	monodon Rack.
	<i>H. saxicola</i> Binn.		<i>H. convexa</i> Chemn.
202 125	indentata Say.		<i>Helicodonta hirsuta</i> a Fer.
	var. umbilicata .		var. 1. H. fratern Say.
202 126	inflecta Say.		<i>H. monodon</i> ex parte De Kay.
	<i>Xolotrema clausa</i> Raf.		<i>convexa</i> Chemn.
	<i>Helicodonta clausa</i> Fer.		var. 2. H. Leaii Ward.
	<i>H. clausa</i> Desh.		<i>H. monodon</i> γ Pfr.
	<i>porcina</i> (junior?) Say.	203 145	Mooreana W. G. Binn.

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
203 146	Helix mordax Shutt.		<i>H. alliaria</i> Forbes.
203 147	multidentata Binn.		<i>nitida</i> Fab.
203 148	multilineata Say.	205 165	Helix stenotrema Fer.
	<i>Helicogena multilineata</i> Fer.		<i>H. hirsuta</i> (var. β) Pfr.
	var. <i>albina</i> .	205 166	striatella Anth.
	var. <i>rufa, unicolor</i> .		<i>H. patula</i> (junior?) Pfr.
204 149	obstricta Say.		<i>runderata</i> Ad., nec Studer.
	<i>H. palliata</i> (var. a) Say.	205 167	subplana Binn.
	<i>appressa</i> (var.) Desh.	205 168	suppressa Say.
	<i>Helicodonta denotata</i> (var.)		<i>H. gularis</i> (var. β) Pfr.
204 150	Ottonis Pfr.	205 169	tenuistriata Binn.
	<i>H. arborea</i> Pfr.		<i>H. vortex</i> Gould, nec Pfr.
204 151	palliata Say.	205 170	Texasiana Mor.
	<i>Helicodonta denotata</i> Fer.		<i>H. auriculata</i> Binn.
	<i>H. denotata</i> Desh. in Lam.		<i>fatigiata</i> Fer.
	<i>notata</i> Desh.		var. H. triodonta Jan?
	var. Carolinensis .	205 171	tholus W. G. Binn.
	<i>H. Carolinensis</i> Lea.	205 172	thyroides Say.
	<i>palliata</i> (var. c) De Kay.		<i>H. thyroidus</i> Say.
204 152	Pennsylvanica Green.		<i>Helicodonta thyroidus</i> Fer.
	<i>H. Mitchelliana</i> Desh. in Fer.,		<i>H. thyroides</i> Chemn.
204 153	perspectiva Say. [nec Lea.		<i>Anchiostoma thyroides</i> Ad.,
	<i>Helicella perspectiva</i> Fer.	205 173	tridentata Say.
	<i>H. patula</i> Desh.		<i>Helicodonta tridentata</i> Fer.
204 154	profunda Say.		<i>Triodopsis lunula</i> Raf.
	<i>Helicella Richardi</i> Fer.	205 174	Troostiana (Polygyra) Lea.
	<i>H. Richardi</i> Lam.		<i>H. Troostiana</i> Pfr.
	<i>Polygyra profundum</i> Ad. Gen.		<i>fatigiata</i> Binn.
	var. <i>unicolor</i> .		var. <i>plicata</i> Binn.
	var. <i>albina</i> .	205 175	uvulifera Shutt.
204 155	pulchella Müll.		<i>H. florulifera</i> Rve.
	<i>H. minuta</i> Say.		<i>auriculata minor</i> Fer.?
	var. costata , <i>H. costata</i> Müll.	205 176	varians Menke.
204 156	pustula (<i>Helicodonta</i>) Fer.		<i>H. carnicolor</i> Pfr.
	<i>H. pustula</i> Pfr.		<i>pisana</i> Mart. et Chemn.
	<i>fatigiata</i> Binn.		<i>submeris</i> Migh.
	<i>leporina</i> W. G. Binn.		<i>rhodocheila</i> Binn.
204 157	pustuloides Bld.		<i>polychroa</i> Binn.
	<i>H. pustula</i> Binn., non Fer.		<i>Helicella carnicolor</i> Fer.
204 158	Roëmeri Pfr.		<i>Hemitrochus hamastomus</i> Sowb.
	<i>H. dentifera</i> Pfr.		var. β . <i>H. apicina</i> Menke.
204 159	Rugeli Shutt.	206 177	ventrosula Pfr.
205 160	Sayii Binn.		var. <i>depressa</i> .
	<i>H. diodonta</i> Say.	206 178	volvaxis Pfr.
205 161	sculptilis Bld.		<i>Polygyra septemvolva</i> Beck?
205 162	solitaria Say.	206 179	vortex Pfr.
	var. <i>minor</i> .		<i>H. selectina</i> Gould.
205 163	spinosa (<i>Carocolla</i>) Lea.	206 180	vultuosa Gould.
	<i>H. spinosa</i> Binn. (excl. <i>H.</i>		
	<i>Edgariana</i> .) [Mörch.		SPECIES EXCLUDED.
205 164	Steenstrupii (<i>Helicella</i>)	206	<i>Helix arbustorum</i> Linn.
	<i>Helicella</i> (n. s.) Steens.		

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
206	<i>Helix Bonplandi</i> Lam.	206 194	Bulimus serperastrus Say.
206	<i>harpa</i> Say = Bulimus .	206 195	subula Pfr.
206	<i>dealbata</i> Say = Bul. dealbatus .		<i>B. procerus</i> Adams.
206	<i>depicta</i> Grat.		<i>octonoides</i> Orb.
206	<i>domestica</i> Ström. = Vitrina angelicæ . [Beck?		<i>hortensis</i> Ad.?
206	<i>hieroglyphica</i> (<i>Euryomphala</i>)	206 196	<i>Achatina subula</i> Pfr.
206	<i>irrorata</i> Say = H. lactea .		zebra (<i>Buccinum</i>) Müll.
206	<i>nemorata</i> Linn.?		<i>Zebra Mulleri</i> Mart. et Chemn.
206	<i>pellucida</i> Fabr. = Vitrina angelicæ .		<i>Bulla zebra</i> Gmelin.
206	<i>Pisana</i> Müll.?		<i>B. undatus</i> Brug.
206	<i>subcylindrica</i> Pult. = Truncatella .		<i>Cochlostyla undata</i> Fer. [Fer.
206	<i>Trumbulli</i> Lins. = Skenia serpuloides Mont.		<i>Achatina flammeigera</i> Say, nec
206	<i>virgata</i> Mont.?		<i>zebra</i> Pfr.
			<i>Agatina fuscata</i> Raf.
206 181	Bulimus acicula (<i>Buccinum</i>)		<i>Orthaliscus undatus</i> Shutt.
206 182	<i>alternatus</i> Say. [Müll.		var. <i>γ. B. princeps</i> Brod.
	<i>B. luctarius</i> Pfr.		<i>Cochlostyla princeps</i> Orb.
	<i>dealbatus</i> Binn.		<i>Orthaliscus princeps</i> Shutt.
206 183	Binneyanus Pfr. in litt.	207	SPECIES EXCLUSÆ.
	<i>B. dealbatus</i> Binn.		Bulimus exiguus Binn. = Carychium .
	<i>Schiedeanus</i> Gould.	207	<i>fasciatus</i> Binn. = Achatina .
206 184	dealbatus (<i>Helix</i>) Say.	207	<i>Gossei</i> Pfr. vide Macroceramus pontificus .
	<i>B. dealbatus</i> Pot. et Mich.	207	<i>Kienri</i> Pfr. vide Macroceramus pontificus .
	<i>confinis</i> Rve.	207	<i>lubricus</i> Adams = Achatina .
	<i>liquabilis</i> Rve.	207	<i>obscurus</i> Dr. vide Pupa placida
206 185	decollatus (<i>Helix</i>) Linn.		Say.
	<i>B. mutilatus</i> Say.	207	<i>striatus</i> Brug. = Glandina
206 186	Dormani W. G. Binn.		truncata .
206 187	Floridianus Pfr.	207	<i>verillum</i> Brug. = Achatina fasciata .
206 188	gracillimus Pfr.	207	<i>zebra</i> Orb. = Ach. fasciata .
	<i>Achatina gracillima</i> Pfr.		
	<i>B. straticostatus</i> Orb.	207 197	Macroceramus pontificus (<i>Cylindrella</i>) Gould.
206 189	harpa (<i>Helix</i>) Say.		<i>Pupa unicarinata</i> Binn. [Müll.
	<i>B. harpa</i> Pfr.	207 198	Achatina fasciata (<i>Buccinum</i>)
	<i>Pupa costulata</i> Migh.		<i>Bulla fasciata</i> Mart. et Chemn.
206 190	marginatus (<i>Cyclostoma</i>) Say.		<i>Bulimus verillum</i> Brug., nec
	<i>B. marginatus</i> Pfr.		De Kay.
	<i>fallax</i> Gould.		<i>Cochlitoma verillum</i> Fer.
	<i>Pupa fallax</i> Say.		<i>A. verillum</i> Lam.
	<i>albilabris</i> Adams.		<i>fasciata</i> Swain.
	<i>Parraiana</i> Orb.		<i>lineata</i> Valen.
206 191	multilineatus Say.		<i>Bulimus fasciatus</i> Binn.
	<i>B. virgulatus</i> Binn.		<i>Agatina variegata</i> Raf.
	<i>Menkei</i> Gruner.		junior <i>A. murrhea</i> Rve.
	<i>venosus</i> Rve.?		var. <i>β. A. pallida</i> Swain.
206 192	octona Ch.		<i>Cochlitoma verillum</i> (var.) Fer.
206 193	Schiedeanus Pfr.		var. <i>γ. A. crenata</i> Swain.
	var. <i>β. fauce nigra</i> .		
	var. <i>γ. apice nigra</i> .		

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
	<i>A. anais</i> Less. <i>fasciata</i> (var.) Rve. <i>Bulimus zebra</i> Orb. var. ζ . <i>A. solida</i> Say.	208 207	Pupa armifera (<i>Carychium</i> ?) <i>P. armifera</i> Gould. [Say. <i>armigera</i> Pot. et Mich. <i>rupicola</i> Pfr.
207 199	Achatina lubrica (<i>Helix</i>) Müll. <i>A. lubrica</i> Pfr. <i>Bulimus lubricus</i> Adams. <i>lubricoides</i> Stimps.	208 208	badia Adams. <i>P. muscorum</i> Linn.
207 200	picta Rve. <i>Bulimus fasciatus</i> (var.) Binn.	208 209	contracta (<i>Carychium</i>) Say. <i>P. contracta</i> Gould. <i>deltostoma</i> Charp. in Chem. <i>corticaria</i> Pfr. <i>Vertigo contracta</i> Ad. Gen.
	SPECIES EXCLUSÆ.	208 210	corticaria Say. <i>Odostomia corticaria</i> Say. <i>Carychium corticaria</i> Fer.
207	<i>Achatina bullata</i> Pfr. = Glandina .	208 211	decora Gould. <i>Vertigo decora</i> Ad. Gen.
207	<i>flammigera</i> Say = Bulimus ze-	208 212	Hoppii Müll. <i>P. Steenbuchii</i> Beck.
207	<i>gracillima</i> Pfr. = Bulimus gra-	208 213	incana Binn. <i>P. detrita</i> Shutt. <i>maritima</i> γ Pfr., Gould.
207	<i>pellucida</i> Pfr. = Blauneria .		var. <i>fasciata</i> .
207	<i>rosea</i> Desh. = Gland. truncata .	208 214	modica Gould.
207	<i>striata</i> De Kay = Gl. truncata ?	208 215	pentodon (<i>Vertigo</i>) Say. <i>P. pentodon</i> Gould. <i>Tappaniana</i> Adams. <i>curvidens</i> Gould.
207	<i>subula</i> Pfr. = Bulimus .		
207	<i>Texasiana</i> Pfr. = Glandina .	208 216	placida Say. <i>Bulimus marginatus</i> Say. <i>obscurus</i> Müll.
207	<i>truncata</i> Pfr. = Glandina .	208 217	rupicola (<i>Carychium</i>) Say. <i>P. rupicola</i> Gould. <i>procera</i> Gould. <i>carinata</i> Gould. <i>Vertigo rupicola</i> Binn. <i>minuta</i> Ad. Gen.?
207	<i>verillum</i> De Kay, vide A. vir-		<i>P. gibbosa</i> Chemn.?
207	ginea .	208 218	variolosa Gould.
207	<i>Vanuxemensis</i> Pfr. = Glandina .		SPECIES EXCLUSÆ.
207	<i>virginea</i> Linn. (<i>A. verillum</i> De Kay, nec Brug.)	208	Pupa albilabris Ad. = Bul. mar-
207 201	Glandina bullata Gould. <i>Achatina bullata</i> Pfr. <i>Oleacina bullata</i> Gr. et Pfr.		ginatus .
207 202	corneola W. G. Binn. <i>G. truncata</i> (var.?) Binn.	208	<i>costulata</i> Migh. = Bul. harpa .
207 203	parallela W. G. Binn. <i>G. truncata</i> (var.) Binn.	208	<i>exigua</i> Say = Carychium .
207 204	Texasiana (<i>Achatina</i>) Pfr.	208	<i>fullax</i> Say = Bul. marginatus .
207 205	truncata (Bulla) Gmelin. <i>Euccinum striatum</i> Mart. et Chemn.	208	<i>Gouldii</i> Binn. = Vertigo .
	<i>Bulimus striatus</i> Brug.	208	<i>millium</i> Gould = Vertigo .
	<i>Cochlicopa rosea</i> Fer.	208	<i>modesta</i> Say = Vertigo ovata .
	<i>Achatina rosea</i> Desh.	208	<i>ovata</i> Gould = Vertigo .
	<i>striata</i> Desh.	208	<i>ovulum</i> Pfr. = Vertigo ovata .
	<i>truncata</i> Orb.	208	<i>Parraiana</i> Orb. = Bul. margi-
	<i>G. truncata</i> Say.		natus .
	<i>Oleacina truncata</i> Gr. et Pfr.		
	<i>Polypheusus glans</i> Say.		
208 206	Vanuxemensis Lea. <i>Achatina Vanuxemensis</i> Pfr. <i>Oleacina Vanuxemensis</i> Gr. et Pfr.		

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
208 208	<i>Pupa simplex</i> Gould = Vertigo . <i>unicarinata</i> Binn. = Macroce- ramus pontificus.	209 223 209 224 209 225	Cylindrella Goldfussi Menke. <i>jejuna</i> Gould. Poeyana Orb. <i>C. lactaria</i> Binn.
205 219	Vertigo Gouldii Binn. <i>Pupa Gouldii</i> Binn.	209 226	Rœmeri Pfr.
209 220	miliu Gould. <i>Pupa miliu</i> Gould.		SPECIES EXCLUSA.
209 221	ovata Say. <i>Pupa ovata</i> Gould. <i>modesta</i> Say. <i>oculum</i> Pfr.	209	<i>Cylindrella pontifica</i> Gould = Ma- croceramus.
209 222	simplex Gould. <i>Pupa simplex</i> Gould.		Familia Auriculacea.
	SPECIES EXCLUSA.		Sub-familia Melampea.
209	Vertigo contracta Ad. Gen. = Pupa.	209 227	Melampus bidentatus Say. <i>M. biplicatus</i> Pfr. <i>corneus</i> Stimp. <i>Jaumei</i> Pfr.
209	<i>decora</i> Ad. Gen. = Pupa.		<i>Auricula biplicata</i> Desh. <i>cornea</i> Desh. <i>bidentata</i> Gould.
209	<i>minuta</i> Ad. Gen., vide Pupa ru-		non Auricula bidens (Say) Pot. et Mich.
209	<i>pentodon</i> Say = Pupa. [<i>picola</i> .		<i>Auricula Jaumei</i> Mittré. var. <i>lineatus</i> Say. <i>Melampus bidentatus</i> ♂ Pfr.
209	<i>rupicola</i> Binn. = Pupa.		<i>Auricula bidentata</i> (var. a) De
	E HELICEIS EXCLUSA.	209 228	cingulatus Pfr. [Kay. <i>Auricula cingulata</i> Pfr. <i>oliva</i> Orb. <i>stenostoma</i> Küst.
209	Aplo don Raf.	209 229	coffea (<i>Voluta</i>) Linn. <i>Bulla coffea</i> Linn. <i>Voluta minuta</i> Gmel. [tini?
209	nodosum Raf.		<i>Auricula midæ parva</i> &c. Mar-
209	Chimotrema Raf.		<i>Ellobium Barbadiense</i> Boelten?
209	planiuscula Raf.		<i>Bulinus conformis</i> Brug.
209	Hemiloma Raf.		<i>M. conformis</i> Montf.
209	<i>avara</i> Raf.		<i>fusca</i> Mörch. <i>coffea</i> Mörch.
209	Mesodon Raf.		<i>Melampa minuta</i> Pfr.
209	<i>maculatum</i> Raf.		<i>Tornatelle conforme</i> Blain.
209	Mesomphix Raf.		<i>Auricula conformis</i> Fer.
209	Odomphium Raf.		<i>ovula</i> Orb.
209	<i>Odostomia</i> Say = Pupa.		<i>Conorulus conformis</i> Lam.
209	<i>corticaria</i> Say = Pupa.		<i>M. coffeus</i> Beck. <i>coffea</i> Gray. <i>obliquus</i> Say?
209	Odotropis Raf.	210 230	Floridianus (<i>Auricula</i>) Shutt.
209	Omphalina Raf.		<i>M. Floridianus</i> Pfr.
209	<i>cupreu</i> Raf., vide Helix.	210 231	obliquus Say. <i>Auricula obliqua</i> De Kay.
209	fuliginosa.	210 232	pusillus (<i>Voluta</i>) Gmel. <i>Auricula midæ parva</i> &c. Mart. et Chemn.
209	Partula Otahaitana Fer.		
209	Stenostoma Raf.		
209	Stenotrema Raf.		
209	<i>convexa</i> Raf.		
209	Toxostoma Raf.		
209	<i>globularis</i> Raf.		
209	Toxotrema Raf.		
209	<i>globularis</i> Raf.		
209	<i>complanata</i> Raf.		
209	Triodopsis Raf.		
209	Trophodon Raf.		
209	Xolotrema Raf.		
209	<i>lunula</i> Raf.		
209	tri odopsis Raf.		

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
	<i>Voluta triplicata</i> Don. <i>Bulinus ovulus</i> Brug. <i>Melampa ovulum</i> Schw. <i>Conovula ovula</i> Fer. <i>Auricula nitens</i> Lam. <i>pusilla</i> Desh. <i>leucodonta</i> Nuttall. <i>Conovulus nitens</i> Voigt. <i>pusillus</i> Anton. <i>M. ovulum</i> Lowe. <i>nitens</i> Shuttl. <i>Pythia ovulum</i> Beck. <i>triplicata</i> Beck. <i>Tralia pusilla</i> Ad. Gen. <i>ovulum</i> Mörch.		<i>Achatina pellucida</i> Gould. <i>Tornatellina Cubensis</i> Pfr. <i>Odostomia? Cubensis</i> Poey. 210 235 Leuconia? Sayii (<i>Auricula</i>) <i>L.? Sayii</i> Pfr. [Küst. An <i>Alexia myosotis?</i> 210 236 Carychium exiguum (Pupa?) <i>C. exiguum</i> Pfr. [Say. <i>exile</i> H. C. Lea. <i>existellum</i> Bourg.? <i>euphæum</i> Bourg.? <i>Bulinus exiguus</i> Binn. <i>Pupa exigua</i> Gould.
	SPECIES EXCLUSÆ.		SPECIES EXCLUSÆ.
210	<i>Melampus borealis</i> Conr. = Alexia myosotis.	211	<i>Carichium? armigera</i> Say = Pupa.
210	<i>denticulatus</i> Stimp. = Alexia myosotis.	211	<i>corticaria</i> Fer. = Pupa.
	Sub-familia Auriculea.	211	<i>contracta</i> Say = Pupa.
	SPECIES EXCLUSÆ.	211	<i>rupicola</i> Say = Pupa.
210	<i>Auricula bidentata</i> Gould = Melampus.	211 237	Familia Aciculacea.
210	<i>biplicata</i> Desh. = Melampus bidentatus.	211 238	Truncatella bilabiata Pfr.
210	<i>cingulata</i> Pfr. = Melampus.		Caribæensis Sowb.
210	<i>coniformis</i> Fer. = Mel. coffea.	211 239	<i>T. variabilis</i> Pfr.
210	<i>cornea</i> Desh. = Melampus bidentatus.	211 240	Gouldii C. B. Ads.
210	<i>denticulata</i> Gould = Alexia myosotis.		<i>Geurintii</i> Parr.
210	<i>Floridianus</i> Shut. = Melampus.		<i>succinea</i> C. B. Ads.
210	<i>Jaumei</i> Mittr. = Melampus bidentatus.		pulchella Pfr.
210	<i>nitens</i> Lam. = Mel. pusillus.		subcylindrica Gray.
210	<i>obliqua</i> De Kay = Melampus.		<i>Helix subcylindrica</i> Pult.
210	<i>oliva</i> Orb. = Mel. cingulatus.		<i>T. truncatella</i> Lowe?
210	<i>pusilla</i> Desh. = Melampus.		<i>Caribæensis</i> Pfr.
210	<i>Sayii</i> Küster = Leuconia.		Familia Cyclostomacea.
210	<i>stenostoma</i> Küster = Melampus cingulatus.		Sub familia Cistulea.
210 233	Alexia myosotis (<i>Auricula</i>)	211 241	Chondropoma dentatum (Cy-
	<i>A. myosotis</i> Pfr. [Drap.		<i>clostoma</i>) Say.
	<i>Auricula denticulata</i> Gould.		<i>Cyclostoma dentatum</i> De Kay.
	<i>Melampus denticulatus</i> Stimp.		<i>lineolatum</i> Anton.
	<i>borealis</i> Conr.		<i>Auberianum</i> Orb.?
210 234	Blauneria pellucida Pfr.		<i>lunulatum</i> Mörch.
	<i>Achatina? pellucida</i> Pfr.		<i>crenulatum</i> Pfr.
			<i>Chondropoma crenulatum</i> Pfr.
			<i>dentatum</i> Pfr.
			CYCLOSTOMACEA EXCLUSÆ.
		211	<i>Cyclostoma Auberianum</i> Orb., vide
		211	Chondropoma dentatum.
		211	<i>Cincinnatiensis</i> Lea = Amnicola.
			<i>crenulatum</i> Pfr. = Chondropoma dentatum.

[Proceedings of the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1858. Pa. No.	Name.	1858. Pa. No.	Name.
211	<i>Cyclostoma dentatum</i> Say = Chondropoma .	211 247	<i>Helicina tropica</i> Pfr.
211	<i>lapidaria</i> Say = Amnicola .		<i>H. ambeliana</i> Sowb., nec DeB.
211	<i>lincolatum</i> Anton = Chondropoma dentatum .		<i>orbiculata</i> Binn., nec Say.
211	<i>lunulatum</i> Mörch. = Chondropoma dentatum .	211	SPECIES EXCLUSÆ.
211	<i>marginalis</i> Kirt. = Bul. marginatus .	211	<i>Helicina fastigiata</i> DeKay = <i>Helix fatigiata</i> Say.
211	<i>marginata</i> Say = Bulimus .	211	<i>plicata</i> De Kay = <i>Helix Hazardi</i> Bland.
211	<i>tricarinata</i> Say = Valvata .	211	<i>Oligyra</i> Say = <i>Helicina</i>.
		211	<i>orbiculata</i> Say = <i>Helicina</i>.
	Familia Helicinacea.		—
211 242	<i>Helicina chrysocheila</i> Binn.	41	<i>Bulimus sufflatus</i> Gould.
211 243	<i>Hanleyana</i> Pfr.		<i>B. vesicalis</i> Gould.
211 244	<i>occulta</i> Say.	48 ^a	<i>Truncatella gracilentia</i> Gould.
211 245	<i>orbiculata</i> Say.	84 ^a	<i>Helix Berlanderiana</i> Mor.
	<i>Oligyra orbiculata</i> Say.		<i>H. pachyloma</i> Mke.
	<i>H. vestita</i> (junior) Guild.		<i>virginalis</i> Pfr.?
	<i>castanea</i> (junior) Guild.	86 ^a	<i>caduca</i> Pfr.
211 246	<i>subglobulosa</i> Pocy.	201	<i>dissidens</i> Desh. = <i>concava</i>.
1859.	Lea. —Descriptions of eight new species of Unionidæ from Georgia, Mississippi, and Texas: by ISAAC LEA.		
April.			
Page.	Name.	Locality.	
112	<i>Unio spissus</i> Lea.	Satilla river, Georgia.	
112	<i>corvus</i> Lea.	Buckhead creek, Georgia.	
112	<i>Buckensis</i> Lea.	Buckhead creek, Georgia.	
112	<i>aureus</i> Lea.	Texas.	
112	<i>curtus</i> Lea.	Tombigbee river, Mississippi.	
112	<i>permiscens</i> Lea.	Tombigbee river, Mississippi.	
113	<i>Margaritana elliptica</i> Lea.	Tombigbee river, Mississippi.	
113	<i>Anodonta Texasensis</i> Lea.	Texas.	
May.	Lea. —Descriptions of twenty-one new species of Exotic Unionidæ: by		
151	ISAAC LEA.		
153	<i>Unio persulcatus</i> Lea.	Mexico.	
	Lea. —Descriptions of two new species of Uniones from Georgia: by ISAAC LEA.		
154	<i>Unio fibuloides</i> Lea.	Connasauga river, Georgia.	
154	<i>compactus</i> Lea.	Etowah river, Georgia.	
	Lea. —Descriptions of seven new species of Uniones from South Carolina, Florida, Alabama, and Texas: by ISAAC LEA.		
154	<i>Unio cacao</i> Lea.	Chacktahachie river, W. Fla.	
154	<i>hepaticus</i> Lea.	Salkakatche river, S. C.	
154	<i>viridiradiatus</i> Lea.	Big Uchee, Ala.; Columbus, Ga.	
154	<i>macrodon</i> Lea.	Rutersville, Texas.	

[Proceedings of the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1859. Page.	Name.	Locality.
155	Unio Houstonensis <i>Lea.</i>	Houston, Texas.
155	Rutersvillensis <i>Lea.</i>	Rutersville, Texas.
155	Forsheyi <i>Lea.</i>	Fayette County, Texas.
June.	Lea. —Descriptions of twelve new species of Uniones from Georgia: by ISAAC LEA.	
170	Unio Baldwinensis <i>Lea.</i>	Carter's creek, Georgia.
170	viridans <i>Lea.</i>	Columbus, Georgia.
170	Hallenbeckii <i>Lea.</i>	Columbus, Georgia.
170	salebrosus <i>Lea.</i>	Columbus, Georgia, &c.
171	modicellus <i>Lea.</i>	Connasauga and Chattanooga
171	latus <i>Lea.</i>	Savannah river. [rivers, Ga.
171	verutus <i>Lea.</i>	Columbus, Ga. [bama rivers.
171	Johannis <i>Lea.</i>	Connasauga, Etowah, and Ala-
171	Racensis <i>Lea.</i>	Columbus and Rae's cr., Ga.
171	inuitatis <i>Lea.</i>	Swift creek, Macon, Ga.
171	Jonesii <i>Lea.</i>	Uharlee creek, Ga.
172	quadratus <i>Lea.</i>	Carter's & Factory creeks, Ga.
July.	Observations on the Geographical Distribution and Anatomy of Unio and—	
177	Anodonta Lewisii.	
177	<i>unadilla</i> De Kay = <i>edentula</i> Say.	
177	<i>edentula.</i>	
188	W. G. Binney. —Notes on American Land Shells, No. 5: by W. G. BINNEY. ¹	
Pa. No.	Name.	Pa. No. Name.
188 1	Arion foliolatus non <i>foliatus.</i>	188 <i>Philomycus dele nebulosus.</i>
188 12	Helix Californiensis <i>Lea.</i>	188 adde <i>oxyrus</i> Raf.
188 13 ^a	cultellata Thomson.	188 <i>quadrilus</i> Raf.
188 33 ^a	strigosa Gould.	188 dele <i>Oxyrus.</i>
188 33 ^b	Townsendiana <i>Lea.</i>	188 <i>quadrilus.</i>
188 33 ^c	tudiculata Binn.	
188 33 ^d	Vancouverensis <i>Lea.</i>	188 58 adde <i>Vitrina Americana</i> Chemn.
	<i>H. concava</i> Binn.	188 68 <i>Succinea Texasiana</i> Pfr.
	<i>vellicata</i> Forbes.	188 69 obliqua Pfr.
188 41	Bulimus sufflatus Gould. in litt.	188 82 <i>Helix auriculata</i> De Kay.
	<i>B. vesicalis</i> Gould.	188 83 <i>Stenotrema avara</i> Hart.
188 48 ^a	(In addenda) is syn. of 48.	188 84 ^a Helix Berlanderiana Mor.
188 49 ^a	Tebennophorus bilineatus	<i>H. pachyloma</i> Mke.
188 55 ^a	Limax lineatus De Kay. [Cart.	<i>virginalis</i> Pfr.
	LIMAX.—SPECIES EXCLUSÆ.	188 86 bulbina Pfr.
188	<i>Limax gracilis</i> Grat.	188 86 ^a caduca Pfr.
188	<i>Eumelus lividus</i> Grat.	188 97 dentifera Pfr.
188	<i>nebulosus</i> Grat.	188 104 <i>Tennesseensis</i> Tros.
188	<i>Philomycus dele lividus.</i>	188 130 <i>Mobiliana</i> Tros.
		188 133 lævigata Desh.

¹ The contributions to this department of American Conchology by this author have also been published in pamphlet form. Page 1 of the pamphlet corresponds to 1857, p. 19. Page 3 = 1857, p. 183. Page 15 = 1858, p. 114. Page 19 = 1858, p. 197. Page 35 = 1859, p. 188.

[Proceedings or the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1859.	Name.	1859.	Name.
Pa. No.		Pa. No.	
188 139 ^a	Helix maxillata Gould.	188 229 ^a	Melampus flavus Gmel.
188 140 ^a	millium Morse.		<i>Auricula Midx</i> , &c., Mart. &
188 141	<i>aper</i> Adams.		<i>Voluta</i> Schr. [Chemn.]
188 144	dele <i>Helix monodon</i> (var. γ) Pfr.,		<i>flava</i> Gmel.
	legge <i>H. convexa</i> (var. γ) Pfr.		<i>flammea</i> γ Gmel.
188 158	<i>Helix dentifera</i> Pfr. in vol. iii, nec		<i>Bulinus monile</i> Brug.
188 170	<i>Tamauipasensis</i> Lea. [vol. i.		<i>Melampa monile</i> Schw.
188 172	<i>thyroidus</i> Desh. in Fer.		<i>Conovulus monile</i> Goldf.
188 176	dele Helix varians Ree.		<i>flavus</i> Anton.
188 187 ^a	Bulinus Gossei Pfr.		<i>Auricula monile</i> Fer.
188 192 ^a	patriarcha W. G. Binn.		<i>flava</i> Desh. in Lam.
188 195	<i>hortensis</i> Adams!		<i>coniformis</i> Orb.
188 213	<i>Pupa maritima</i> Gould (nec γ).		Melampus monile Lowe.
188 214 ^a	pellucida Pfr.		<i>torosa</i> Mörch.
188 217	<i>rupicola</i> Chemn.		<i>monilis</i> Shutt.
188 218	<i>Vertigo variolosa</i> Ad. Gen.	189 232 ^a	Redfieldi Pfr.
	E HELICES EXCLUSA.	189 245	<i>Helix vestita</i> Pfr.
188	<i>Triodopsis lunula</i> Raf.		
Oct.	Isaac Lea. —Note on—		
280	<i>Margaritana Etowahensis</i> Lea, preoc. = M. Georgiana Lea.		
Nov.			
329	Isaac Lea. —Notes on Anatomy of Unionidæ.		
Dec.	Carpenter. —Notice of Shells collected by Mr. J. Xantus at Cape St.		
331	Lucas: by P. P. CARPENTER.		
	[Notes on geographical distribution, but no descriptions.—W. G. B.]		
332	Oniscia tuberculata.	332	Oliva porphyria.
332	Cassis coarctata.	332	Columbella hæmastoma.
332	abbreviata.	332	Conus princeps.
332	Lathirus castaneus.	332	Haliotis splendens.

Rafinesque.—Descriptions de onze genres nouveaux de Mollusques, publiées en 1814: par C. S. RAFINESQUE, Prof. de Bot. et d'Hist. Nat. dans l'Univ. de Lexington. (From Journal de Physique, tom. lxxxix, p. 146. August, 1819.)

Page.		Page.	
152	Opiptera Raf. (n. g.)	152	Oxynoë olivacea Raf.
152	bicolor Raf.	152	Tylodina Raf. (n. g.)
152	Oxynoë Raf. (n. g.)	153	punctulata Raf.

[The remainder are Annelides and Polyyps.—W. G. B.]

The same translated into German. Isis, 1820, p. 244.

Rafinesque.—Précis des Découvertes Somiologiques ou Zoologiques et Botaniques de C. S. RAFINESQUE. Palerme, 1814.

[No localities are given. The species are probably foreign.—W. G. B.]

CLASS **MALACOSIA.** Les Mollusques.

Page.		Page.	
28	Octopus frayedus Raf.	29	Loligo todurus Raf.
28	didynamus Raf.	29	Ozorna Aldrovandi Raf.
28	heteropus Raf.	29	Dictyethis fusca Raf.
28	ruber Raf.	29	Hypterus Raf. (n. g.)
28	tetradynamus Raf.	29	appendiculatus Raf.
28	moschatus Raf.	29	erythrogaster Raf.
29	albus Raf.	29	Stephylla Raf. (n. g.)
29	niger Raf.	30	pallida Raf.
29	maculatus Raf.	30	lutescens Raf.
29	Ozoena moschata Raf.	30	fusca Raf.
	<i>Octopus moschatus</i> Lam.	30	Armina Raf. (n. g.)
29	Ocythoe Raf. (n. g.)	30	maculata Raf.
29	tuberculata Raf.	30	tigrina Raf.
29	Sepia mucronata Raf.	30	Sarcopterus Raf. (n. g.)
29	Loligo lanceolata Raf.	30	ruber Raf.
29	odagadium Raf.		

Conrad.—Descriptions of new Fossil and Recent Shells of the United States: by T. A. CONRAD. (From Journ. Acad. Nat. Sci. of Philad., n. s., vol. i, part iii, p. 207. Aug. 1849.)

Page.	Name.	Locality.
208	Siliqua Floridana Conr.	Egmont Key, Tampa Bay.
	<i>Solecurtus fragilis</i> (var.) Conr.	
208	Lyonsia Floridana Conr.	
	<i>Osteodesma hyalina</i> Conr.?	
208	Cryptomya Conr. (n. g.)	
208	<i>Sphaenia Californica</i> Conr. = Cryptomya Californica.	
208	Donax protracta Conr. (p. 280, pl. xxxix, fig. 8).	St. Joseph's Bay, Fla.
209	Venus intapurpurea Conr. (p. 280, pl. xxxix, fig. 9).	Egmont Key, Tampa Bay.
209	Pecten fuscopurpureus Conr. (p. 280, pl. xxxix, fig. 10).	Mullet Key, Tampa Bay.

Conrad.—Notes on Shells, with Descriptions of new Genera and Species: by T. A. CONRAD. (From same as last, p. 210.)

Page.		Page.	
213	Petricola Californica <i>Conr.</i> <i>Saxicava Californica</i> <i>Conr.</i> <i>P. arcuata</i> Desh.	213	Siliqua lucida <i>Conr.</i> <i>Solecortus lucidus</i> <i>Conr.</i> <i>radiatus</i> Gould, non Linn.
213	carditoides <i>Conr.</i> <i>Saxicava carditoides</i> <i>Conr.</i> <i>P. cylindracea</i> Desh.	213	Trigonella <i>Conr.</i> (n. g.)
213	Siliqua Nuttallii <i>Conr.</i> <i>Solecortus Nuttallii</i> <i>Conr.</i> <i>maximus</i> Gould, non Wood. <i>Solen splendens</i> Chenu.	213	crassatelloides <i>Conr.</i>
		214	Sanguinolaria Nuttallii <i>Conr.</i> <i>Psammobia decora</i> Hinds.
		214	Margaritaria <i>Conr.</i> (n. g.,
		214	Parapholas <i>Conr.</i> (n. g.) [fos.]
		214	Californica <i>Conr.</i>
		214	Janelli Desh.

Conrad.—Descriptions of new Fresh-water and Marine Shells: by T. A. CONRAD. (From same as last, part iv, p. 275. Jan. 1850.)

Page.	Plate.	Fig.	Name.	Locality.
275	xxxvii	1	Unio securiformis <i>Conr.</i>	Flint river, Ga.
275	xxxvii	2	stagnalis <i>Conr.</i>	Ogeechee riv., Ga.
275	xxxvii	3, 4	Ogeecheensis <i>Conr.</i>	Ogeechee riv., Ga.
275	xxxvii	5	rosaceus <i>Conr.</i>	Savannah river.
276	xxxvii	6	oratus <i>Conr.</i>	Flint river, Ga.
276	xxxvii	7	contrarius <i>Conr.</i>	Ogeechee riv., Ga.
276	xxxvii	8	nucleopsis <i>Conr.</i>	Etowah river, Ga.
276	xxxvii	9	limatulus <i>Conr.</i>	Savannah river.
276	xxxviii	2	perplicatus <i>Conr.</i> <i>U. atrocostatus</i> Lea.	Jackson, La.
277	xxxviii	4, 8	nodiferus <i>Conr.</i>	Jackson, La.
277	xxxviii	7	plectophorus <i>Conr.</i> <i>U. aratus.</i>	Flint river, Ga.
277	xxxviii	11	Mississippiensis <i>Conr.</i>	Lower Mississippi.
277	xxxviii	1	Melania subilirata <i>Conr.</i>	Savannah river.
278	xxxviii	3	cœlatura <i>Conr.</i>	Savannah river.
278	xxxviii	5	symmetrica <i>Conr.</i>	Savannah river.
278	xxxviii	6	perangulata <i>Conr.</i>	Savannah river.
278	xxxviii	9	nebulosa <i>Conr.</i>	Savannah river.
278	xxxviii	10	percarinata <i>Conr.</i>	Savannah river.

[Here follow descriptions of marine shells from Lower California and Peru. The particular locality not being given, they are all quoted among the foreign species.—W. G. B.]

Conrad.—Descriptions of new Species of Unio: by T. A. CONRAD. (From same as last, vol. ii, part iv. February, 1854.)

Page.	Plate.	Fig.	Name.	Locality.
295	xxvi	1	Unio Aberti <i>Conr.</i>	Chambers' ford, Verdigris river, Ark.
			<i>U. Lamarckianus</i> Lea.	
296	xxvi	5	hebetatus <i>Conr.</i>	Missouri.
296			rivularis <i>Conr.</i> (Uniomorus),	
			<i>U. declivis</i> <i>Conr.</i> , non Say.	
296	xxvi	7	porrectus <i>Conr.</i>	Jackson, Miss.
			<i>U. parallelus</i> <i>Conr.</i> (preoc.)	
297	xxvi	8	arquatus <i>Conr.</i>	Wabash river.
297	xxvii	1	subcroceus <i>Conr.</i>	Trib. of Canadian riv., Ark.
297	xxvii	2, 3	nobilis <i>Conr.</i>	Bayou Teche.
297	xxvii	4	pectitus <i>Conr.</i>	Wabash river.
298	xxvii	5	altus <i>Conr.</i>	Tennessee?
298	xxvii	6	velatus <i>Conr.</i>	River St. Foix.

Conrad.—Synopsis of the Genera Parapholas and Penitella: by T. A. CONRAD. (From same as last, p. 335. No descriptions.)

Page.		Page.	
335	Parapholas Californica <i>Conr.</i>	335	Penitella tubijera <i>Val.</i>
	<i>Pholas Californica</i> <i>Conr.</i>	335	xylophaga <i>Val.</i>
	<i>Janelli</i> <i>Desh.</i>	335	melanura.
335	Penitella Conradi <i>Val.</i>		<i>Pholas melanura</i> Sowb.
	<i>Pholas penita</i> <i>Conr.</i>		<i>Penitella Wilsoni</i> <i>Conr.</i>
	<i>concammerata</i> <i>Desh.</i>		[not <i>Parapholas bisulcata.</i>]

Adams.—Description of a Species of Haliotis supposed to be new: by C. B. ADAMS. (From Silliman's Amer. Journ. Sci., n. s., vol. vi, p. 138. July, 1848.)

Page.	
138	Haliotis ponderosa <i>Adams.</i>

Anonymous.—Conchology. (From the Naturalist, edited by D. J. Browne, vol. ii. Boston, 1832. With a plate.)

Page.	Date.	Title of article.
65	March, 1832.	
68-73	March, 1832.	Explanation of the Parts of Shells.

Page.	Date.	Title of article.
101-104	April, 1832.	On the Constituent Parts of Shells.
137-146	May, 1832.	On the Formation of Shells.
165-175	June, 1832.	On the Colors of Shells.
202-207	July, 1832.	On the Formation of the Umbilicus, Protuberances, &c.
235-238	Aug. 1832.	On the Production of Pearls.
271-275	Sept. 1832.	On the Habitation of Testaceous Animals.
303-306	Oct. 1832.	On the Methods of Fishing and Collecting Shells.
341-348	Nov. 1832.	On the Methods of Polishing Shells.

Cooper.—List of Shells collected by Mr. Schoolcraft in the Western and Northwestern Territory: by WILLIAM COOPER. (In Appendix to Narrative of an Expedition through the Upper Missouri to Itasca Lake, &c., under the direction of Henry B. Schoolcraft, p. 153. New York, 1834.)

Page.	Name.	Locality.
153	<i>Helix albolabris</i> Say.	Lake Michigan.
153	<i>alternata</i> Say.	Wabash river.
153	<i>Planorbis campanulatus</i> Say.	Itasca Lake.
153	<i>trivolvus</i> Say.	Lake Michigan.
153	<i>Lymneus umbrosus</i> Say.	Lake Winnipeg, &c.
154	<i>reflexus</i> Say.	Rainy Lake, &c.
154	<i>stagnalis</i> .	Lake a la Crosse.
154	<i>Paludina ponderosa</i> Say.	Wisconsin river.
154	<i>vivipara</i> Say.	
154	<i>Melania Virginica</i> Say.	Lake Michigan.
154	<i>Anodonta cataracta</i> Say.	Chicago.
154	<i>corpulenta</i> Cooper (description).	Upper Missouri river.
154	<i>Alasmodonta complanata</i> Barnes.	Shell Lake, &c.
154	<i>rugosa</i> Barnes.	St. Croix, &c.
155	<i>marginata</i> Say.	Lake Vaseux, &c.
155	<i>edentula</i> Say?	Lake Vaseux, &c.
155	<i>areolata</i> Sw.?	Lake Vaseux, &c.
155	<i>Unio tuberculatus</i> Barnes.	Painted Rock.
155	<i>pustulatus</i> Lea.	Upper Missouri river.
155	<i>verrucosus</i> Barnes.	St. Croix river, &c.
155	<i>plicatus</i> Lesueur.	Prairie du Chien, &c.
155	<i>trigonus</i> Lea.	Prairie du Chien, &c.
155	<i>ebenus</i> Lea.	Upper Missouri river.
155	<i>gibbosus</i> Barnes.	St. Croix river.
155	<i>rectus</i> Lam.	Upper Missouri river.
	<i>U. prælongus</i> Barnes.	

Page.	Name.	Locality.
155	Unio siliquoides Barnes.	Upper Missouri river.
155	inflatus Barnes.	Upper Missouri river.
155	complanatus Lea.	Lake Vaseux.
	<i>U. purpureus</i> Say.	
155	crassus Say.	Upper Missouri river.
155	radiatus Barnes.	Lake Vaseux.
155	occidens Lea.	Wisconsin river, &c.
	<i>U. ventricosus</i> Say.	
156	ventricosus Barnes.	Upper Missouri river.
156	alatus Say.	Upper Missouri river.
	<i>Symphynota alata</i> Lea.	
156	gracilis Barnes.	Upper Missouri river.
	<i>Symphynota gracilis</i> Lea.	

Tufts.—A List of Shells collected at Swampscot, Lynn, and vicinity: by SAMUEL TUFTS, Jr. (From Proceedings of Essex Institute, vol. i, p. 25. Salem, Mass., 1856.)

[No descriptions are given, but notes on locality, &c.—W. G. B.]

Page.		Page.	
26	Teredo dilatata St.	27	Petricola pholadiformis.
26	Pholas crispata.	27	Sanguinolaria fusca.
	<i>costata</i> ?	27	<i>sordida.</i>
26	Solen ensis.	27	Tellina tenera.
26	Machæra costata.	27	<i>tenta.</i>
26	Solemya velum.	27	Lucina radula.
26	<i>borealis.</i>	27	<i>flexuosa.</i>
26	Glycimeris siliqua.	27	Cyclas partumeia.
26	Mya arenaria.	27	——?
26	<i>truncata.</i>	27	Astarte castanea.
26	Corbula contracta?	27	<i>sulcata.</i>
26	Pandora trilineata.	27	<i>quadrans.</i>
26	Osteodesma hyalina.	27	Cyprina Islandica.
26	Anatina papyracea.	27	Cytherea convexa.
26	Cochlodesma Leana.	27	Venus mercenaria.
26	Thracia Conradi.	27	<i>gemma.</i>
26	Couthouyi St.	27	Cardium pinnulatum.
26	<i>truncata.</i>	27	<i>Islandicum.</i>
27	Mactra solidissima.	28	Grœnlandicum.
27	<i>ovalis.</i>	28	Cardita borealis.
27	Mesodesma arctata.	28	Nucula thraciæformis.
27	Kellia rubra.	28	<i>limatula.</i>
27	Saxicava distorta.	28	<i>minuta.</i>

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28	<i>Nucula myalis</i> .
28	<i>sapotilla</i> .
28	<i>proxima</i> .
28	<i>tenuis</i> .
28	<i>Unio complanatus</i> .
28	<i>Anodon fluviatilis</i> .
28	<i>Mytilus edulis</i> .
28	var. <i>pellucidus</i> .
28	<i>Modiola modiolus</i> .
28	<i>plicatula</i> .
28	<i>discrepans</i> .
28	<i>nexa</i> .
28	<i>discors</i> .
28	<i>glandula</i> .
28	<i>Ostrea</i> ———.
28	<i>Anomia ephippium</i> .
28	<i>Terebratulæ caputserpentis</i> .
28	<i>Chiton marmoreus</i> .
28	<i>fulminatus</i> .
28	<i>ruber</i> .
28	<i>albus</i> .
28	<i>Emersonianus</i> .
28	<i>Lottia testudinalis</i> .
29	<i>alveus</i> .
29	<i>Dentalium dentale</i> .
29	<i>Cemoria Noachina</i> .
29	<i>Crepidula fornicata</i> .
29	<i>plana</i> .
29	<i>convexa</i> .
29	<i>glauca</i> .
29	<i>Bulla insculpta</i> .
29	<i>triticea</i> .
29	<i>puncto-striata</i> .
29	<i>canaliculata</i> .
29	<i>Gouldii</i> .
29	<i>debilis</i> .
29	<i>lineolata</i> .
29	<i>obstricta</i> .
29	<i>Helix albolabris</i> .
29	<i>alternata</i> .
29	<i>arborea</i> .
29	<i>indentata</i> .
29	<i>lineata</i> .
29	<i>labyrinthica</i> .
29	<i>minuscula</i> .

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29	<i>Helix pulchella</i> .
29	<i>striatella</i> .
29	——— ?
29	<i>Bulimus lubricus</i> .
29	<i>Succinea campestris</i> .
30	<i>Auricula bidentata</i> .
30	<i>Planorbis lentus</i> .
30	<i>bicarinatus</i> .
30	<i>armigerus</i> .
30	<i>hirsutus</i> .
30	<i>Physa heterostrophæ</i> .
30	<i>ancillaria</i> .
30	<i>elongata</i> .
30	<i>Limnæa columella</i> .
30	<i>macrostoma</i> .
30	<i>umbilicata</i> .
30	<i>elodes</i> .
30	<i>Ancylus fuscus</i> .
30	<i>Valvata pupoidea</i> .
30	<i>Paludina decisa</i> .
30	<i>Natica heros</i> .
30	<i>triseriata</i> .
30	<i>immaculata</i> .
30	<i>canaliculata</i> .
30	<i>duplicata</i> .
30	<i>pusilla</i> .
30	<i>clausa</i> .
30	<i>Velutina lævigata</i> .
30	<i>zonata</i> .
30	<i>Sigaretus haliotoideus</i> .
30	<i>Scalaria Grœnlandica</i> .
31	<i>Margarita cinerea</i> .
31	<i>obscura</i> .
31	<i>undulata</i> .
31	<i>arctica</i> .
31	<i>argentata</i> .
31	<i>Littorina rudis</i> .
31	<i>tenebrosa</i> .
31	<i>palliata</i> .
31	<i>Lacuna neritoidea</i> .
31	<i>vincta</i> .
31	var. <i>fusca</i> .
31	<i>Cingula minuta</i> .
31	<i>aculeus</i> .
31	<i>Turritella erosa</i> .

Page.		Page.	
31	<i>Turritella acicula.</i>	32	<i>Purpura lapillus.</i>
31	<i>Pyramis striatula.</i>	32	<i>Trichotropis borealis.</i>
31	<i>Odostomia exigua.</i>	32	<i>Buccinum plicosum.</i>
31	<i>Pleurotoma decussata.</i>	32	<i>undatum.</i>
32	<i>Cancellaria Couthouyi.</i>	32	<i>obsoletum.</i>
32	<i>Fusus Islandicus.</i>	32	<i>trivittatum.</i>
32	<i>decemcostatus.</i>	32	<i>rosaceum.</i>
32	<i>Bamffius.</i>	32	<i>lunatum.</i>
32	<i>rufus.</i>	32	<i>Xylophaga cuneiformis.</i>
32	<i>harpularius.</i>	32	<i>Helix hortensis.</i>
32	<i>pygmæus.</i>	32	<i>Turritella interrupta.</i>
32	<i>Rostellaria occidentalis.</i>		

Gould.—Catalogue of Shells collected in California by W. P. Blake, with descriptions of the new species: by AUGUSTUS A. GOULD, M. D. (From Appendix to the Preliminary Geological Report of William P. Blake, Geologist of the Survey in California under the command of Lieut. R. S. Williamson. Washington, 1855.)

[Though referred to House Document 129, I cannot find it in the Congressional Reports. It seems to have been published separately in this octavo form. It occurred subsequently in quarto, with plates, in the Pacific Railroad Report, vol. v, q. v.—W. G. B.]

No descriptions are given of the following:—

Page.	Name.	Locality.
22	<i>Ostrea</i> ———.	San Diego.
22	<i>Pecten latiauratus</i> Conrad.	San Diego.
22	<i>Pecten</i> ———.	San Diego.
22	<i>Mytilus edulis.</i>	San Francisco.
22	<i>Modiola capax</i> Conrad.	San Diego.
22	<i>Venus Nuttallii</i> Conrad.	San Pedro.
22	<i>fluctifraga</i> Sowerby.	San Diego.
22	<i>Tapes grata</i> Say.	San Pedro.
	<i>T. discors</i> Sowerby.	
	<i>straminea</i> Conrad.	
22	<i>gracilis</i> Gould.	San Pedro.
22	<i>Cyclas</i> ———.	Colorado Desert.
22	<i>Cardium cruentatum</i> Gould.	San Diego.
22	<i>Lucina orbella</i> Gould.	San Pedro.
22	<i>Nuttallii</i> Conrad.	San Pedro.
22	<i>Mesodesma rubrotincta</i> ? Sowerby.	San Pedro.

Page.	Name.	Locality.
22	<i>Tellina vicina</i> Adams.	San Diego.
22	<i>secta</i> Conrad.	San Pedro.
22	<i>Sphenia Californica</i> Conrad.	San Diego.
22	<i>Petricola cylindracea</i> Desh.	Monterey, San Pedro.
	<i>P. carditoides</i> Conrad.	
22	<i>Solecurtus Californiensis</i> Conrad.	San Diego.
22	<i>Gnathodon Lecontei</i> Conrad.	Colorado Desert.
22	<i>Lottia scabra</i> Gould.	San Francisco.
22	<i>patina</i> Esch.	San Pedro.
22	<i>mitra</i> Brod.	San Pedro.
22	<i>Calyptrea hispida</i> Brod.	San Pedro, San Diego.
22	<i>Crepidula incurva</i> Brod.	San Pedro.
22	<i>Bulla nebulosa</i> Gould.	San Diego.
22	(<i>Haminea</i>) <i>virescens</i> Sowerby.	San Diego.
22	<i>vesicula</i> Gould.	San Diego.
22	(<i>Tornatina</i>) <i>inculta</i> Gould.	San Diego.
22	<i>Trochus mæstus</i> Jonas.	San Diego.
22	<i>Phasianella compta</i> Gould.	San Diego.
22	<i>Littorina</i> ———.	
22	<i>Melampus</i> ———.	San Diego.
22	<i>Oliva biplicata</i> .	San Pedro.
22	<i>Potamis pullatus</i> Gould.	San Diego.
22	<i>Amnicola protea</i> Gould.	Colorado Desert.
22	<i>longinqua</i> Gould.	Colorado Desert.
22	<i>Planorbis ammon</i> Gould.	Color. Des., Ocoya cr.
22	<i>Physa humerosa</i> Gould.	Colorado Desert.
22	<i>Succinea</i> ———.	Ocoya creek.

Descriptions are given of the following:—

23	<i>Physa humerosa</i> Gould.	Color. Des., Pecos riv.
23	<i>Planorbis ammon</i> Gould.	Colorado Desert.
24	<i>Amnicola protea</i> Gould.	Colorado Desert.
24	<i>longinqua</i> Gould.	Colorado Desert.
25	<i>Potamis pullatus</i> Gould.	San Diego.
25	<i>Phasianella compta</i> Gould.	San Diego.
26	<i>Bulla</i> (<i>Tornatina</i>) <i>inculta</i> Gould.	San Diego.
25	(<i>Haminea</i>) <i>vesicula</i> Gould.	San Diego.
26	<i>Cardium cruentatum</i> Gould.	San Pedro.
27	<i>Tapes gracilis</i> Gould.	San Pedro.
27	<i>Mytilus edulis</i> ?	San Francisco.
28	<i>Ostrea</i> ———.	San Diego.
28	———.	San Diego.
28	<i>Pecten</i> ———.	San Diego.

Gould.—Catalogue of the Recent Shells, with descriptions of the new species: by AUGUSTUS A. GOULD, M. D. (From the Reports of Explorations and Surveys to ascertain the most practicable and economical Route for a Railroad from the Mississippi River to the Pacific Ocean, &c., by Lieut. R. S. Williamson, Top. Eng., vol. v. 33d Congress, 2d Session, Senate Ex. Doc., No. 78, vol. xiii, pt. v. 4to. Washington, 1856. The general title-page of the Report bears the date of 1853, that of Part II, of which this paper forms an Appendix, bears the date of 1857. Like all the Pacific Railroad Reports, it forms a portion also of the House Documents.)

No descriptions are given of the following:—

Page.	Name.	Locality.
330	<i>Ostrea</i> ———.	San Diego.
330	<i>Pecten monotimeris</i> Conrad.	San Diego.
330	<i>ventricosus</i> Sowerby. <i>P. tumidus</i> Sowerby.	San Diego.
330	<i>Mytilus edulis</i> .	San Francisco.
330	<i>Modiola capax</i> Conrad.	San Diego.
330	<i>Venus Nuttallii</i> Conrad.	San Pedro.
330	<i>fluctifraga</i> Sowerby.	San Diego.
330	<i>Tapes grata</i> Say. <i>T. discors</i> Sowerby. <i>straminea</i> Conrad.	San Pedro.
330	<i>gracilis</i> Gould.	San Pedro.
330	<i>Cyclas</i> ———?	Colorado Desert.
330	<i>Cardium cruentatum</i> Gould.	San Diego.
330	<i>Lucina orbella</i> Gould.	San Pedro.
330	<i>Nuttallii</i> Conrad.	San Pedro.
330	<i>Mesodesma rubrotincta</i> ? Sowerby.	San Pedro.
330	<i>Tellina vicina</i> Adams.	San Diego.
330	<i>secta</i> Conrad.	San Pedro.
330	<i>Sphænia Californica</i> Conrad.	San Diego.
330	<i>Petricola carditoides</i> Conrad. <i>P. cylindracea</i> Desh.	Monterey, San Pedro.
330	<i>Solecurtus Californiensis</i> Conrad.	San Diego.
330	<i>Gnathodon Lecontei</i> Conrad. <i>G. trigonum</i> Petit.	Colorado Desert.
330	<i>Lottia scabra</i> Gould.	San Francisco.
330	<i>patina</i> Esch.	San Pedro.
330	<i>Scurria pallida</i> Gr. <i>Lottia mitra</i> Br.	San Pedro.

Page.	Name.	Locality.
330	<i>Calyptra hispida</i> Br.	San Pedro, San Diego.
330	<i>Crepidula incurva</i> Br.	San Pedro.
330	<i>Bulla nebulosa</i> Gould.	San Diego.
330	(<i>Haminea</i>) <i>virescens</i> Sowerby	San Diego.
330	<i>vesicula</i> Gould.	San Diego.
330	<i>Bulla</i> (<i>Tornatina</i>) <i>inculta</i> Gould.	San Diego.
330	<i>Trochus mæstus</i> Jonas.	San Diego.
330	<i>Phasianella compta</i> Gould.	San Diego.
331	<i>Littorina</i> ———.	San Diego.
331	<i>Melampus</i> ———.	San Diego.
331	<i>Oliva biplicata</i> Sowerby.	San Pedro.
331	<i>Potamis pullatus</i> Gould.	San Diego.
331	<i>Amnicola protea</i> Gould.	Colorado Desert.
331	<i>longinqua</i> Gould.	Colorado Desert.
331	<i>Planorbis ammon</i> Gould.	Color. Des., Ocoya cr.
331	<i>Physa humerosa</i> Gould.	Colorado Desert.
331	<i>Succinea</i> ———.	Ocoya creek.
331	<i>Helix Vancouverensis</i> Lea.	San Francisco.
331	<i>San Diegoensis</i> .	Point Reyes.
331	<i>infumata</i> Gould.	Point Reyes.
331	<i>Oregonensis</i> Lea.	Cypress Point.

Descriptions are given of the following:—

FRESH-WATER SHELLS FROM THE COLORADO DESERT.

Page.	Plate.	Fig.	Name.	Locality.
331	xi	1-5	<i>Physa humerosa</i> Gould.	Color. Des., Pecos riv.
331	xi	12-18	<i>Planorbis ammon</i> Gould.	Colorado Desert.
332	xi	6-9	<i>Amnicola protea</i> Gould.	Colorado Desert.
			<i>Melania exigua</i> Conrad.	
333	xi	10-11	<i>longinqua</i> Gould.	Colorado Desert.

MARINE SHELLS FROM THE COAST.

333	xi	23-24	<i>Potamis pullatus</i> Gould.	San Diego.
333	xi	25-26	<i>Phasianella compta</i> Gould.	San Diego.
334	xi	27-28	<i>Bulla</i> (<i>Tornatina</i>) <i>inculta</i> Gld.	San Diego.
334	xi	29	(<i>Haminea</i>) <i>vesicula</i> Gould.	San Diego.
334	xi	21-22	<i>Cardium cruentatum</i> Gould.	San Pedro.
335	xi	19-20	<i>Tapes gracilis</i> Gould.	San Pedro.
335			<i>Mytilus edulis</i> ?	San Francisco.
335			<i>Ostrea</i> ———?	San Pedro.
336			———?	San Diego.

Lea, Binney.—Explorations in Nebraska. Preliminary Report of Lieut. G. K. Warren, Top. Eng., &c. &c. Dr. F. V. Hayden's Report on Geology and Natural History. (From Executive Documents printed by order of the House of Representatives during the 2d Session of the 35th Congress, 1858-9, vol. ii, pt. iii, p. 723. Washington, 1859.)

Page.	Name.	Locality.
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Isaac Lea.

723	Notes on Geographical Distribution.	
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FLUVIATILE SHELLS.

724	<i>Unio alatus</i> Say.	Big Sioux river.
724	<i>levissimus</i> Lea.	Big Sioux river.
724	<i>luteolus</i> Lam.	Big Sioux river.
724	<i>asperimus</i> Lea.	Big Sioux river.
724	<i>rectus</i> Lea.	Big Sioux river.
724	<i>elegans</i> Lea.	James river.
724	<i>zig-zag</i> Lea.	White Earth river.
724	<i>anodontoides</i> Lea.	James river.
724	<i>Margaritana complanata</i> Lea.	Fort Clark, Mo.
724	<i>Anodonta Ferussaciana</i> Lea.	Whiteriver, Nebraska.
724	<i>Lymnea elodes</i> Say.	Big Sioux river.
724	<i>Nuttalliana</i> Lea.	Big Sioux river.
724	<i>humilis</i> Say.	Big Sioux river.
724	<i>Haydeni</i> Lea.	Big Sioux river.
724	<i>Kirtlandiana</i> Lea.	Big Sioux river.
724	<i>umbrosa</i> Say.	Grindstone river, N. T.
724	<i>lubricoides</i> Lea.	Grindstone river, N. T.
724	<i>Philadelphica</i> Lea.	Grindstone river, N. T.
724	<i>Planorbis bicarinatus</i> Say.	Mouth of Big Sioux river.
724	<i>trivolvus</i> Say.	Mouth of Big Sioux river.
724	<i>lentus</i> Say.	Mouth of Big Sioux river.
724	<i>parvus</i> Say.	Mouth of Big Sioux river.
724	<i>campanulatus</i> Say.	Mouth of Big Sioux river.
724	<i>Physa heterostropha</i> Say.	Mouth of Big Sioux river.
724	<i>integra</i> Hald.?	Mouth of Big Sioux river.
724	<i>elongata</i> Say.	Mouth of Big Sioux river.
724	<i>ampularia</i> Say.	Mouth of Big Sioux river.
725	<i>Pisidium</i> ———?	Grindstone creek.
725	<i>Cyclas</i> ———?	Grindstone creek.
725	<i>Daphnia</i> ———?	Grindstone creek.
725	<i>Amnicola porata</i> Say.	Fort Berthold.
725	<i>lapidaria</i> .	Fort Berthold.

W. G. Binney.

LAND SHELLS.

Page.	Name.	Locality.
725	<i>Helix minuscula</i> Binney.	Council Bluff, N. T.
725	<i>lineata</i> Say.	Council Bluff, N. T.
725	<i>striatella</i> Anthony.	Council Bluff, N. T.
725	<i>inflecta</i> Say.	Council Bluff, N. T.
725	<i>hirsuta</i> Say.	Council Bluff, N. T.
725	<i>solitaria</i> Say.	Council Bluff, N. T.
725	<i>alternata</i> Say.	Council Bluff, N. T.
725	<i>elevata</i> Say.	Council Bluff, N. T.
725	<i>fallax</i> Say.	Council Bluff, N. T.
725	<i>concava</i> Say.	Council Bluff, N. T.
725	<i>ligera</i> Say.	Council Bluff, N. T.
725	<i>profunda</i> Say.	Near Ft. Leavenworth, K. T.
725	<i>multilineata</i> Say.	Near Ft. Leavenworth, K. T.
725	<i>monodon</i> Rack.	Near Ft. Leavenworth, K. T.
725	<i>pulchella</i> Müll. (p. 724).	Near Ft. Leavenworth, K. T.
725	<i>costata</i> Müll. (p. 724).	Near Ft. Leavenworth, K. T.
725	<i>arborea</i> Say.	Near Fort Berthold.
725	<i>chersina</i> Say.	Near Fort Berthold.
725	<i>electrina</i> Gould.	Near Fort Berthold.
725	<i>Cooperi</i> W. G. Binney (n. s.)	Black hills, N. T.
725	<i>Pupa Nebraskana</i> W. G. Binn. (n. s.)	Fort Berthold, K. T.
725	<i>Blandi</i> W. G. Binney (n. s.)	Fort Berthold, K. T.
725	<i>pentodon</i> Say.	Council Bluff, N. T.
725	<i>modesta</i> Say.	Council Bluff, N. T.
725	<i>badia</i> Adams.	Council Bluff, N. T.
725	<i>Bulinus lubricus</i> Müll.	Fort Berthold.
725	<i>Succinea venusta</i> Say.	Yellowstone river.
725	<i>retusa</i> Lea.	Yellowstone river.
725	<i>Haydeni</i> W. G. Binney (n. s.)	Yellowstone river.
725	<i>lineata</i> W. G. Binn. (n. s., p. 724.)	Ft. Union, Yellowstone riv.
725	<i>Nuttalliana</i> Lea.	Fort Union.
725	<i>obliqua</i> Say.	Fort Berthold, N. T.

Gould.—Reports of the Commissioners of the Zoological Survey of the State. Boston, 1838. (Mass. House. Doc., No. 72. April, 1838.) Mollusca: by Dr. A. A. GOULD.

[The following species were specified by name only as having been discovered since 1838 (vide ante, p. 39).—W. G. B.]

Page.		Page.	
107	<i>Mya truncata</i> Penn.	107	<i>Tellina sordida</i> Couth.
107	<i>Thracia Conradi</i> Couth.	107	<i>tenera</i> Say.

Page.		Page.	
107	<i>Cryptodon flexuosa</i> Turton.	107	<i>Physa elongata</i> Say.
107	<i>Mesodesma Jauresii</i> De Joannis.	107	<i>Valvata tricarinata</i> Say.
107	<i>Venus fluctuosa</i> Gould, MS.	107	<i>Paludina canaliculata</i> Gld., lustrica Say. [MS.
107	<i>Cardium pubescens</i> Couth.	107	<i>Oxinoë glabra</i> Couth.
107	<i>Nucula thraciæformis</i> Stor.	107	<i>Scalaria Nov-Angliæ</i> Couth.
107	<i>lævigata</i> Gould, MS.	107	<i>subulata</i> Couth.
107	<i>myalis</i> Couth.	107	<i>Natica immaculata</i> Totten.
107	<i>tenuisulcata</i> Couth.	107	<i>consolidata</i> Couth.
107	<i>Modiola pectinula</i> Gld., MS.	107	<i>Actæon trifidus</i> Totten.
107	<i>discors</i> Linn.	107	<i>convoluta</i> Gould, MS.
107	<i>discrepans</i> Montagu.	107	<i>Jaminia exigua</i> Couth.
107	<i>Terebratula septentriona- lis</i> Couth.	107	<i>Lacuna neritoidea</i> Gld. MS.
107	<i>thalassina</i> Gould, MS.	107	<i>Turbo incarnatus</i> Couth.
107	<i>Chiton fulminatus</i> Couth.	107	<i>cinereus</i> Couth.
107	<i>sagrinatus</i> Couth.	107	<i>obscurus</i> Couth.
107	<i>Emersonii</i> Couth.	107	<i>aculeus</i> Gould, MS.
107	<i>pectinatus</i> Gould, MS.	107	<i>Turritella erosa</i> Couth.
107	<i>Patella candida</i> Couth.	107	<i>Pyramis striatula</i> Couth.
107	<i>Rimula Noachina</i> Linn.	107	<i>Cancellaria buccinoides</i> Couth.
107	<i>Galericulum ovatum</i> Brown.	107	<i>Trichotropis costellatus</i> Couth.
107	<i>lævigatum</i> Brown.	107	<i>Pleurotoma bicarinata</i> Cou.
107	<i>Bulla insculpta</i> Totten.	107	<i>Fusus pleurotomarius</i> Cou.
107	<i>triticea</i> Couth.	107	<i>harpularius</i> Couth.
107	<i>lineolata</i> Couth.	107	<i>Murex turriculus</i> Montagu.
107	<i>Bullina canaliculata</i> Say.	107	<i>scalariformis</i> Gould, MS.
107	<i>Bulimus lubricus</i> Penn.		

Eaton.—Zoological Text-book; containing Cuvier's four grand Divisions of Animals, &c. &c., with short descriptions of some of the most common species, &c.: by AMOS EATON. Albany, 1826.

[The first part of this work is devoted to Systematic Zoology, pp. 111-118 including Mollusca, with descriptions of genera. The second part contains descriptions of many species of animals, the genera being arranged alphabetically. The following are Mollusca, no locality being given. Most of them are foreign.—W. G. B.]

Page.		Page.	
141	<i>Anomia squamula.</i>	153	<i>Arca Noæ.</i>
141	<i>tridentata.</i>	155	<i>Argonauta argo.</i>
141	<i>terebratula.</i>	155	<i>Ascidia rustica.</i>

Page.		Page.	
159	<i>Buccinum stromboides.</i>	217	<i>Mya purpurea.</i>
159	<i>Bulla ampulla.</i>	218	ovata.
160	fontinalis.	218	cariosa.
166	<i>Cardium edule.</i>	218	ochracea.
169	<i>Chama gigas.</i>	218	nasuta.
169	antiquata.	219	alata.
169	<i>Chiton tuberculatus.</i>	219	cylindrica.
170	<i>Clio pyramidata.</i>	219	undulata.
173	<i>Conus ammiralis.</i>	219	plicata.
176	<i>Cypræa arabica.</i>	219	undata.
176	argus.	219	elliptica.
177	tigris.	220	carinata.
178	<i>Dentalium elephantinum.</i>	220	prælonga.
179	<i>Donax trunculus.</i>	220	gibbosa.
179	<i>Doris argo.</i>	220	cuneata.
193	<i>Haliotis tuberculata.</i>	220	radiata.
193	<i>Helix albilabris.</i>	221	mucronata.
193	thyroidus.	221	inflata.
193	arboreus.	221	ventricosa.
193	tridentata.	221	siliquoidea.
194	alternata.	221	plana.
194	glaphyra.	221	triangularis.
194	trivolvus.	222	gracilis.
194	bicarinatus.	222	parva.
195	parvus.	222	arcuata.
195	catascopius.	222	rugosa.
195	heterostrophus.	222	complanata.
195	subcarinatus.	223	<i>Mytilus margaritiferus.</i>
195	virginica.	224	cataractus.
196	vivipara.	224	marginatus.
196	decisa.	224	<i>Nautilus pompilius.</i>
206	<i>Limax ater.</i>	225	<i>Nerita glaucina.</i>
206	maximus.	227	<i>Onchidium typhæ.</i>
206	agrestis.	228	<i>Ostræa maxima.</i>
208	<i>Mactra solida.</i>	229	Jacobæa.
208	lutraria.	229	edulis.
213	<i>Murex tribulus.</i>	229	plicatula.
213	erinaceous.	232	<i>Patella fornicata.</i>
216	<i>Mya margaritifera.</i>	232	fissura.
216	cornuta.	240	<i>Pholas dactylus.</i>
216	verrucosa.	241	<i>Pinna muricata.</i>
216	nodosa.	252	<i>Sepia officinalis.</i>
217	tuberculata.	252	loligo.
217	rugosa.	256	<i>Solen vagina.</i>
217	crassa.	258	<i>Spondylus quæderopus.</i>

Page.		Page.	
262	Strombus gigas.	267	Teredo navalis.
266	Tellina fragilis.	272	Trochus magus.
266	<i>radiata.</i>	273	Turbo corticaria.
266	<i>similis. (Amer.)</i>	275	Venus mercenaria. (N. Y.)
266	<i>dubia. (Amer.)</i>	278	Voluta pallida.

Gould.—Mollusca and Shells of the United States Exploring Expedition (Com. Wilkes): by A. A. GOULD, M. D. Boston, 1852.

[The following are the American species.—W. G. B.]

Page.	Fig.	Name.	Locality.
2	2, 2 ^a , 2 ^b	Arion foliolatus Gould.	Puget Sound.
3	1-1 ^c	Limax Columbianus Gould.	Puget Sound, &c.
28	29-29 ^b	Succinea rusticana Gould.	Oregon.
36	37	Helix Vancouverensis Lea.	Oregon.
36	41-41 ^b	<i>strigosa</i> Gould.	Puget Sound, &c.
37	42-42 ^c	<i>sportella</i> Gould.	Puget Sound, &c.
66	38	<i>Nuttalliana</i> Lea.	Puget Sound, &c.
66	36	<i>Townsendiana</i> Lea.	Willamet creek.
		<i>Helix pedestris</i> Gould (p. 65).	
		<i>ruida</i> Gould (p. 65).	
67	35-35 ^c	<i>labiosa</i> Gould.	Oregon, &c.
68	39-39 ^c	<i>loricata</i> Gould.	Sacramento river.
69	74-74 ^b	<i>devia</i> Gould.	Puget Sound.
70	40-40 ^c	<i>germana</i> Gould.	Oregon.
112	131-131 ^c	Planorbis vermicularis Gould.	Interior of Oregon.
113	132-132 ^c	<i>opercularis</i> Gould.	Sacramento river.
113	130-130 ^b	<i>corpulentus</i> Say.	Columbia river.
114		<i>trivolvus</i> Say.	
120	138, 138 ^a	Physa virginea Gould.	Sacramento river.
121	141, 141 ^a	Limnea lepida Gould.	Lake Vancouver.
122		<i>apicina</i> Lea.	Oregon.
122		<i>umbrosa</i> Say.	Columbia and Sacra- mento rivers.
141	164, 164 ^a	Melania silicula Gould.	Nisqually.
142	163, 163 ^a	<i>bulbosa</i> Gould.	Columbia river.
143	165	<i>plicifera</i> Lea.	Lake George, Oreg.
144	166, 166 ^a	Cerithium (Potamis) sacratum	Sacramento river.
149	175-175 ^c	<i>filosum</i> Gould. [Gould.	Puget Sound.
185	207-207 ^b	Trochus ligatus Gould.	Puget Sound.
194	230-230 ^b	Lacuna carinata Gould.	Puget Sound.
197	237, 237 ^a	Littorina patula Gould.	San Francisco.

Page.	Fig.	Name.	Locality.
199	238-238 ^c	<i>Littorina lepida</i> Gould.	Puget Sound.
200	241, 241 ^a	<i>scutulata</i> Gould.	Puget Sound.
201	236-236 ^b	<i>plena</i> Gould.	San Francisco.
206		<i>Scalaria australis</i> Lam.	Puget Sound.
211	253, 253 ^a	<i>Natica Lewisii</i> Gould.	Puget Sound.
212	254, 254 ^a	<i>caurina</i> Gould.	Straits of de Fuca.
214	256, 256 ^a	<i>algida</i> Gould.	Classet, Oregon.
219	275	<i>Trichotropis cancellata</i> Hinds.	Straits of de Fuca.
233	284-284 ^b	<i>Fusus fidicula</i> Gould.	Puget Sound.
234	285-285 ^b	<i>orpheus</i> Gould.	Puget Sound.
241		<i>Triton Oregonense</i> Jay. <i>Fusus Oregonense</i> Rve. <i>cancellatus</i> Rve.	Puget Sound.
244	310, 310 ^a	<i>Purpura ostrina</i> Gould.	Killimook, Oregon.
254	321, 321 ^a	<i>Buccinum fossatum</i> Gould.	Puget Sound, &c.
263	331, 331 ^a	<i>Nassa mendica</i> Gould.	Puget Sound, &c.
264	332, 332 ^a	<i>rubricata</i> Gould.	Pacific coast.
267	337-337 ^b	<i>Columbella gausapata</i> Gould.	Puget Sound.
309		<i>Chioræa</i> Gould. (n. g.)	
310	404-404 ^b	<i>leonina</i> Gould.	Puget Sound.
311		<i>Dendronotus</i> ———.	Puget Sound.
311		<i>Goniodoris</i> ———.	Puget Sound.
311		<i>Doris</i> ———.	Puget Sound.
311		<i>Eolis</i> ———.	Puget Sound.
313	436	<i>Chiton muscosus</i> Gould.	Puget Sound.
321	433-433 ^b	<i>dentiens</i> Gould.	Puget Sound.
322	423-423 ^b	<i>interstinctus</i> Gould.	Puget Sound.
323	426-426 ^b	<i>vespertinus</i> Gould.	Puget Sound.
344	445-445 ^b	<i>Patella fimbriata</i> Gould.	Straits of de Fuca.
346	454, 454 ^a	<i>instabilis</i> Gould.	Puget Sound.
346	458, 458 ^a	<i>conica</i> Gould.	Puget Sound.
348	456-456 ^b	(<i>Lottia</i> ?) <i>scabra</i> Gould.	San Francisco.
349	457-457 ^b	<i>textilis</i> Gould.	Straits of de Fuca.
351	455-455 ^c	<i>Lottia pintadina</i> Gould. <i>Acmaea patina</i> Esch. ? <i>scutum</i> Esch. ?	Straits of de Fuca, &c.
367	471-471 ^b	<i>Fissurella cratitia</i> Gould.	Puget Sound.
368	475-475 ^c	<i>Rimula cucullata</i> Gould.	Puget Sound.
369	476-476 ^c	<i>galeata</i> Gould.	Puget Sound.
375	482-482 ^b	<i>Crepidula rostriformis</i> Gould.	Straits of de Fuca.
376	481-481 ^c	<i>lingulata</i> Gould.	Puget Sound.
377	480-480 ^b	<i>nummaria</i> Gould.	Classet.
379	484-484 ^b	<i>Calyptrea fastigiata</i> Gould.	Puget Sound.
384	498-498 ^b	<i>Mya præcisæ</i> Gould.	Puget Sound.
385	507-507 ^b	<i>Panopæa generosa</i> Gould.	Puget Sound.

Page.	Fig.	Name.	Locality.
387	501-501 ^b	<i>Solen sicarius</i> Gould.	Straits of de Fuca.
393	506-506 ^b	<i>Macra falcata</i> Gould.	Puget Sound.
395	508-508 ^b	<i>Lutraria maxima</i> Midd. <i>L. capax</i> Gould.	Puget Sound.
397	509-509 ^b	<i>Osteodesma bracteatum</i> .	Puget Sound.
399		<i>Saxidomus Nuttalli</i> Conr.	Straits of de Fuca.
417	532, 532 ^a	<i>Cardita ventricosa</i> Gould.	Puget Sound.
418	534, 534 ^a	<i>Cardium blandum</i> Gould.	Puget Sound.
420	538-538 ^b	<i>Venus rigida</i> Gould.	Puget Sound, &c.
426	527-527 ^b	<i>Cyclas patella</i> Gould.	Oregon.
432	544-544 ^b	<i>Unio famelicus</i> Gould.	Wallawalla.
433	545-545 ^b	<i>Alasmodonta falcata</i> Gould.	Wallawalla, &c.
435	546-546 ^b	<i>Anodonta cognata</i> Gould.	Nisqually, &c.
436		<i>angulata</i> Lea.	Sacramento river.
436	547-547 ^b	<i>feminalis</i> Gould.	Wallawalla, &c.
450	567, 567 ^a	<i>Mytilus trossulus</i> Gould.	Puget Sound.
453	561, 561 ^a	(<i>Modiola</i>) <i>flabellatus</i> Gould.	Puget Sound.
457	570, 570 ^a	<i>Pecten hericius</i> Gould.	Straits of de Fuca.
458	569-569 ^b	<i>caurinus</i> Gould.	Port Townsend.
467	581-581 ^e	<i>Terebratula pulvinata</i> Gould.	Puget Sound.
468	582-582 ^e	<i>caurina</i> Gould.	Puget Sound.

ADDENDA AND CORRIGENDA.

Page.		Page.	
501*	<i>Helix loricata</i> Gould. <i>H. Lecontei</i> Lea.	503*	<i>Natica Lewisii</i> Gould. <i>N. herculea</i> Midd.
501*	<i>devia</i> Gould. <i>H. Baskervillei</i> Pfr.	508*	<i>Lutraria capax</i> Gould. <i>L. maxima</i> (preoc.)
503*	<i>Trochus ligatus</i> Gould. <i>T. castaneus</i> Forbes.		

Conrad.—Descriptions of Marine Shells from Upper California, collected by Thomas Nuttall, Esq.: by T. A. CONRAD. (From Journ. Acad. Nat. Sci., of Philadelphia, vol. vii, pt. 2, p. 227, 1837.)

[This paper was very imperfectly quoted on p. 53. I give both foreign and American species here.—W. G. B.]

Page.	Plate.	Fig.	Name.	Locality.
228	xvii	1	<i>Pandora punctata</i> Conr.	Sta. Barbara.
228	xvii	2	<i>Cardium substriatum</i> Conr.	St. Diego.
229	xvii	3	<i>Nuttalli</i> Conr.	Estuary of Columbia r.
229	xvii	4	<i>Californianum</i> Conr.	Sta. Barbara.

Page.	Plate.	Fig.	Name.	Locality.
230	xvii	5	<i>Cardium quadragenarium</i> <i>Conr.</i>	Sta. Barbara.
230	xvii	6	<i>Sanguinolaria Nuttalli</i> <i>Conr.</i>	St. Diego.
231	xvii	7	<i>Californiana</i> <i>Conr.</i>	Estuary of Columbia r.
231	xvii	8	<i>Solecortus lucidus</i> <i>Conr.</i>	Sta. Barbara.
232	xvii	9	<i>Nuttalli</i> <i>Conr.</i>	Estuary of Columbia r.
232			<i>Cultellus</i> <i>Conr.</i> (n. s. g.)	
233	xvii	10	<i>Solecortus subteres</i> <i>Conr.</i>	Sta. Barbara.
233	xviii	3	<i>Californianus</i> <i>Conr.</i>	Sta. Barbara.
234	xvii	11	<i>Sphænia Californica</i> <i>Conr.</i>	Sta. Barbara.
234	xvii	12	<i>Cumingia Californica</i> <i>Conr.</i>	Sta. Barbara.
235			<i>Cryptodon</i> <i>Conr.</i> (n. s. g.)	
235	xviii	1	<i>Lutraria Nuttalli</i> <i>Conr.</i>	Sta. Barbara.
235			<i>Platyodon</i> <i>Conr.</i> (n. s. g.)	
236	xviii	2	<i>Mya cancellata</i> <i>Conr.</i>	Sta. Barbara.
236	xviii	4	<i>Cypricardia Californica</i> <i>Conr.</i>	Sta. Barb'a, St. Diego.
236	xviii	5	<i>Pholas Californica</i> <i>Conr.</i>	Sta. Barb'a, St. Diego.
237	xviii	7	<i>penita</i> <i>Conr.</i>	Sta. Barb'a, St. Diego.
238	xviii	8	<i>Periploma argentaria</i> <i>Conr.</i>	St. Diego.
238	xviii	9	<i>Pecten lati-auratus</i> <i>Conr.</i>	St. Diego, Sta. Barb'a.
238	xviii	10	<i>monotimeris</i> <i>Conr.</i>	St. Diego, Sta. Barb'a.
239	xviii	11	<i>Amphidesma rubro-lineata</i> <i>Conr.</i>	St. Diego.
239	xix	2	<i>decisa</i> <i>Conr.</i>	St. Diego.
239	xx	4	<i>bellastriata</i> <i>Conr.</i>	Mobile point, Ala.
240	xviii	12	<i>Mactra Californica</i> <i>Conr.</i>	Sta. Barbara.
240			<i>planuiata</i> <i>Conr.</i>	Sta. Barbara.
241	xviii	13	<i>Psammobia pacifica</i> <i>Conr.</i>	St. Diego.
241	xviii	14	<i>Mytilus bifurcatus</i> <i>Conr.</i>	Sandwich Islands.
242	xviii	15	<i>Californianus</i> <i>Conr.</i>	S. Diego, S. Bar., Mon-
242			<i>crebristriatus</i> <i>Conr.</i>	Sand'ch Isl. [tereys.
242			<i>Modiola capax</i> <i>Conr.</i>	St. Diego.
243	xix	1	<i>recta</i> <i>Conr.</i>	Sta. Barbara.
243	xx	6	<i>Carolinensis</i> <i>Conr.</i>	Sullivan's Isl., Charleston,
244	xx	7	<i>Modiola semicostata</i> <i>Conr.</i>	Salem, Mass. [S. C.
244	xix	4	<i>Pinna Nuttalli</i> <i>Conr.</i>	Sandwich Islands.
245	xx	11	<i>semicostata</i> <i>Conr.</i>	Sandwich Islands.
245	xix	9	<i>incisa</i> <i>Conr.</i>	Sandwich Islands.
246	xix	13	<i>Californica</i> <i>Conr.</i>	Sandwich Islands.
246			<i>costellata</i> <i>Conr.</i>	Sandwich Islands.
246	xix	6	<i>Avicula pallida</i> <i>Conr.</i>	Sandwich Islands.
246			<i>nebulosa</i> <i>Conr.</i>	Sandwich Islands.
246			<i>Mytilimeria</i> <i>Conr.</i> (n. g.)	
247			<i>Nuttalli</i> <i>Conr.</i>	California.
247	xix	7	<i>Lima dehiscens</i> <i>Conr.</i>	Fayal.
248	xix	8	<i>Thracia curta</i> <i>Conr.</i>	Sta. Barbara.
248	xix	10	<i>Lyonsia inflata</i> <i>Conr.</i>	Guayaquil.

Page.	Plate.	Fig.	Name.	Locality.
248	xix	21	Lyonsia Californica <i>Conr.</i>	Sta. Barbara.
249			Saxidomus <i>Conr.</i> (n. g.)	
249	xix	14	Nuttalli <i>Conr.</i>	St. Diego, California.
250	xix	16	Venus Nuttalli <i>Conr.</i>	St. Diego, Sta. Barb'a.
250	xix	15	staminea <i>Conr.</i>	St. Diego, Sta. Barb'a.
251	xix	14	Californiana <i>Sowb.</i>	St. Diego.
251	xix	19	lamellifera <i>Conr.</i>	California.
251			Mortoni <i>Conr.</i>	Charleston, S. C.
252			Cytherea callosa <i>Conr.</i>	Sta. Barbara.
253	xix	18	prora <i>Conr.</i>	New Holland.
253	xix	22	hieroglyphica <i>Conr.</i>	Sandwich Islands.
253			Trigonella <i>Conr.</i> (n. s. g., no descr.)	
253	xix	17	Cytherea crassatelloides <i>Conr.</i>	St. Diego, Sta. Barb'a.
254	xix	21	Donax Californica <i>Conr.</i>	Sta. Barbara.
254	xix	11	Lucina bella <i>Conr.</i>	St. Diego.
255	xx	1	Californica <i>Conr.</i>	St. Diego.
255	xx	2	Nuttalli <i>Conr.</i>	St. Diego.
255	xx	8	Saxicava carditoides <i>Conr.</i>	Sta. Barbara.
256	xx	9	Californica <i>Conr.</i>	Sta. Barb'a, St. Diego.
256			Chama iostoma <i>Conr.</i>	Atooi.
256			exogyra <i>Conr.</i>	Sta. Barb'a, St. Diego.
257	xx	10	Vulsella Nuttalli <i>Conr.</i>	Friendly Islands.
257			Tellina secta <i>Conr.</i>	St. Diego.
258			alta <i>Conr.</i>	Sta. Barbara.
258			nasuta <i>Conr.</i>	St. Diego.
259			dispar <i>Conr.</i>	Sandwich Islands.
259			obliquilineata <i>Conr.</i>	Sandwich Islands.
259	xx	3	lintea <i>Conr.</i>	Mobile Point, Ala.
260			Hinnita Nuttalli <i>Conr.</i>	Fayal.
263	xx	26	Scalaria turbinata <i>Conr.</i>	Beaufort, N. C.
263			Cerostoma <i>Conr.</i> (n. s. g.)	
264	xx	22	Nuttalli <i>Conr.</i>	Sta. Barbara.
264	xx	17	Monoceros engonata <i>Conr.</i>	Sta. Barbara.
264			brevidens <i>Conr.</i>	Sta. Barbara.
265	xx	18	lapilloides <i>Conr.</i>	Sta. Barbara.
265	xx	19	Purpura Nuttalli <i>Conr.</i>	Fayal.
265	xx	21	Floridana <i>Conr.</i>	Florida and Alabama.
266	xx	25	harpa <i>Conr.</i>	Sta. Barbara.
266	xx	23	bulbiformis <i>Conr.</i>	Sandwich Islands.
267	xx	20	dumosa <i>Conr.</i>	
267			macrostoma <i>Conr.</i>	Sta. Barbara.
268	xx	24	foliacea <i>Conr.</i>	Atooi.

Lea, Agassiz.—In the Proceedings of the American Philosophical Society of Philadelphia, occur the following:—

Vol.	Pa.	Name.	Vol.	Pa.	Name.
Isaac Lea.					
Nov. Dec.	1838	[For locality, see Trans. American Philosophical Society.—W. G. B.]			
i	66	Melania Cincinnatiensis	i	289	Anodonta Footiana <i>Lea.</i>
		<i>Lea.</i>	i	289	Melania catenaria <i>Lea.</i>
Mar. Apr.	1840		i	289	Boykiniana <i>Lea.</i>
i	187	Patella amena Say= Patel- loida testudinalis.	i	289	Carocolla Cumberland- iana <i>Lea.</i>
Oct.	1840		i	289	Cyclostoma Cincinna- tensis <i>Lea.</i>
i	285	Unio Cincinnatiensis	Feb. 1841		
i	285	pilaris <i>Lea.</i> [<i>Lea.</i>	ii	11	Melania Hildrethiana
i	285	Geddingsianus <i>Lea.</i>	ii	11	castanea <i>Lea.</i> [<i>Lea.</i>
i	286	tuberosus <i>Lea.</i>	ii	11	lævigata <i>Lea.</i>
i	286	cuneolus <i>Lea.</i>	ii	11	Kirtlandiana <i>Lea.</i>
i	286	Lesueurianus <i>Lea.</i>	ii	11	Taitiana <i>Lea.</i>
i	286	Stonensis <i>Lea.</i>	ii	11	dubia <i>Lea.</i>
i	286	lens <i>Lea.</i>	ii	12	ebenum <i>Lea.</i>
i	286	plenus <i>Lea.</i>	ii	12	rufa <i>Lea.</i>
i	286	tener <i>Lea.</i>	ii	12	fusiformis <i>Lea.</i>
i	286	pusillus <i>Lea.</i>	ii	12	clavæformis <i>Lea.</i>
i	286	amœnus <i>Lea.</i>	ii	12	gracilis <i>Lea.</i>
i	286	incrassatus <i>Lea.</i>	ii	12	subsolida <i>Lea.</i>
i	286	Boydianus <i>Lea.</i>	ii	12	Ocoeensis <i>Lea.</i>
i	287	Sloatianus <i>Lea.</i>	ii	12	subcylindracea <i>Lea.</i>
i	287	paulus <i>Lea.</i>	ii	12	sordida <i>Lea.</i>
i	287	strigosus <i>Lea.</i>	ii	12	regularis <i>Lea.</i>
i	287	lineatus <i>Lea.</i>	ii	12	fuliginosa <i>Lea.</i>
i	287	exiguus <i>Lea.</i>	ii	12	Nickliniana <i>Lea.</i>
i	287	tortivus <i>Lea.</i>	ii	12	viridis <i>Lea.</i>
i	287	subangulatus <i>Lea.</i>	ii	12	occidentalis <i>Lea.</i>
i	287	striatus <i>Lea.</i>	ii	12	Niagaraensis <i>Lea.</i>
i	287	fatuus <i>Lea.</i>	ii	12	globula <i>Lea.</i>
i	287	dactylus <i>Lea.</i>	ii	13	altilis <i>Lea.</i>
i	287	obtusus <i>Lea.</i>	ii	13	strigosa <i>Lea.</i>
i	288	Boykinianus <i>Lea.</i>	ii	13	virgata <i>Lea.</i>
i	288	Edgarianus <i>Lea.</i>	ii	13	tenebrosa <i>Lea.</i>
i	288	biangularis <i>Lea.</i>	ii	13	teres <i>Lea.</i>
i	288	nitens <i>Lea.</i>	ii	13	obtusa <i>Lea.</i>
i	288	Holstonensis <i>Lea.</i>	ii	13	Lecontiana <i>Lea.</i>
i	288	dolabelloides <i>Lea.</i>	ii	13	corrugata <i>Lea.</i>
i	288	Tennesseeensis <i>Lea.</i>	ii	13	monozonalis <i>Lea.</i>
i	288	atro-marginatus <i>Lea.</i>	ii	13	terebralis <i>Lea.</i>
i	288	Bournianus <i>Lea.</i>	ii	13	columella <i>Lea.</i>
i	288	Margaritana Curreyiana	ii	13	blanda <i>Lea.</i>
		<i>Lea.</i>	ii	13	crebri-costata <i>Lea.</i>
i	289	Anodonta Harpethiana	ii	13	Curreyana <i>Lea.</i>
i	289	argentea <i>Lea.</i> [<i>Lea.</i>	ii	14	Edgariana <i>Lea.</i>
i	289	ferruginea <i>Lea.</i>	ii	14	decora <i>Lea.</i>
i	289	Cowperiana <i>Lea.</i>	ii	14	costulata <i>Lea.</i>
i	289	Maryattiana <i>Lea.</i>			

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ii	14	<i>Melania nitida</i> Lea.	ii	33	<i>Lymnea rustica</i> Lea.
ii	14	<i>plicatula</i> Lea.	ii	33	<i>plica</i> Lea.
ii	14	<i>concinna</i> Lea.	ii	33	<i>coarctata</i> Lea.
ii	14	<i>Babylonica</i> Lea.	ii	33	<i>casta</i> Lea.
ii	14	<i>exarata</i> Lea.	ii	33	<i>parva</i> Lea.
ii	14	<i>Potosiensis</i> Lea.	ii	33	<i>curta</i> Lea.
ii	14	<i>acuto-carinata</i> Lea.	ii	33	<i>strigosa</i> Lea.
ii	14	<i>Warderiana</i> Lea.	ii	33	<i>Kirtlandiana</i> Lea.
ii	14	<i>sulcosa</i> Lea.	ii	34	<i>Paludina regularis</i> Lea.
ii	15	<i>striata</i> Lea.	ii	34	<i>obtusa</i> Lea.
ii	15	<i>pilula</i> Lea.	ii	34	<i>Troostiana</i> Lea.
ii	15	<i>circincta</i> Lea.	ii	34	<i>Anculosa Troostiana</i>
ii	15	<i>venusta</i> Lea.	ii	34	<i>gibbosa</i> Lea. [Lea.
ii	15	<i>Florentiana</i> Lea.	ii	34	<i>dentata</i> Lea.
ii	15	<i>Duttoniana</i> Lea.	ii	34	<i>variabilis</i> Lea.
ii	15	<i>Holstonia</i> Lea.	ii	34	<i>Amnicola orbiculata</i>
ii	15	<i>caliginosa</i> Lea.	ii	34	<i>parva</i> Lea. [Lea.
ii	15	<i>nodulosa</i> Lea.	ii	34	<i>Io tenebrosa</i> Lea.
Apr.	1841		ii	34	Notes on parturition, &c., of Uniones.
ii	30	<i>Unio Sapotalensis</i> Lea.	Oct.	1841	
ii	30	<i>Tecomatensis</i> Lea.	ii	81	<i>Valvata bicarinata</i> Lea.
ii	30	<i>Bigbyensis</i> Lea.	ii	82	<i>Unio Brumleyanus</i> Lea.
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ii	31	<i>Duttonianus</i> Lea.	ii	82	<i>sparsus</i> Lea.
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ii	31	<i>Anodonta Montezuma</i>	ii	82	<i>Helix Mobiliana</i> Lea.
ii	31	<i>globosa</i> Lea. [Lea.	ii	82	<i>minutissima</i> Lea.
ii	31	<i>Helix Tennesseensis</i>	ii	82	<i>Melania turgida</i> Lea.
		Lea.	ii	82	<i>glabra</i> Lea.
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		Lea.	ii	82	<i>picta</i> Lea.
ii	31	<i>Succinea Wardiana</i>	ii	82	<i>impressa</i> Lea.
		Lea.	ii	83	<i>robusta</i> Lea.
ii	32	<i>Totteniana</i> Lea.	ii	83	<i>Jayana</i> Lea.
ii	32	<i>Nuttalliana</i> Lea.	ii	83	<i>Anculosa rubiginosa</i>
ii	32	<i>aurea</i> Lea.	ii	83	<i>bella</i> Lea. [Lea.
ii	32	<i>Oregonensis</i> Lea.	ii	83	<i>Griffithiana</i> Lea.
ii	32	<i>inflata</i> Lea.	ii	83	<i>tuberculata</i> Lea.
ii	32	<i>Planorbis regularis</i> Lea.	ii	83	<i>Valvata bicarinata</i> Lea.
ii	32	<i>Buchanensis</i> Lea.	ii	83	<i>Paludina angulata</i> Lea.
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ii	32	<i>Lymnea Philadelphica</i>	Jan.-		
		Lea.	Apr.	1842	
ii	33	<i>Griffithiana</i> Lea.	ii	150	<i>Melania altalis</i> Lea.
ii	33	<i>Nuttalliana</i> Lea.	Aug.-		
ii	33	<i>bulimoides</i> Lea.	Oct.	1842	
ii	33	<i>exigua</i> Lea.	ii	224	<i>Unio Foremanianus</i>
ii	33	<i>planulata</i> Lea.	ii	224	<i>Haleianus</i> Lea. [Lea.
ii	33	<i>fusiformis</i> Lea.	ii	225	<i>Dariensis</i> Lea.

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Dec.	1842		iv	164	<i>pallescens</i> Lea.
ii	234	Notes on turbinated and discoid shells, as <i>Turbo duplicatus</i> .	iv	164	<i>utriculus</i> Lea.
			iv	164	<i>spatulatus</i> Lea.
			iv	164	<i>tumescens</i> Lea.
			iv	164	<i>caperatus</i> Lea.
Dec	1842		iv	164	<i>fulgidus</i> Lea.
ii	237	<i>Melania rufa</i> Lea = <i>rufescens</i> .	iv	164	<i>pulvinulus</i> Lea.
ii	237	<i>striata</i> Lea = <i>striatula</i> .	iv	164	<i>hyalinus</i> Lea.
ii	237	<i>laevigata</i> Lea = <i>laevis</i> .	iv	164	<i>Estabrookianus</i> Lea.
ii	237	<i>corrugata</i> Lea = <i>rugosa</i> .	iv	164	<i>approximus</i> Lea.
ii	237	<i>Unio compressus</i> Lea = <i>pressus</i> .	iv	164	<i>symmetricus</i> Lea.
ii	242	<i>Melania plicatula</i> Lea = <i>Deshaysiana</i> .	iv	164	<i>fuliginosus</i> Lea.
ii	242	<i>plicata</i> Lea = <i>Menki-ana</i> .	iv	165	<i>caliginosus</i> Lea.
ii	242	<i>exarata</i> Lea = <i>arata</i> .	iv	165	<i>Binneyi</i> Lea.
ii	242	<i>Planorbis lens</i> Lea = <i>Brog-niarti</i> .	iv	165	<i>Gouldii</i> Lea.
ii	242	<i>Melania Vanuxemiana</i>	iv	165	<i>Margaritana minor</i> Lea.
ii	242	<i>ovalis</i> Lea. [Lea.]	iv	165	<i>Anodonta tetragona</i> Lea.
ii	242	<i>Haysiana</i> Lea.	iv	165	<i>Melania Buddii</i> Lea.
ii	242	<i>excisa</i> Lea.	iv	165	<i>torta</i> Lea.
ii	242	<i>Schizostoma</i> n. g. Lea.	iv	165	<i>pernodosa</i> Lea.
ii	242	<i>Melania Ordiana</i> Lea.	iv	165	<i>filum</i> Lea.
ii	242	<i>brevis</i> Lea.	iv	165	<i>nobilis</i> Lea.
ii	242	<i>oliva</i> Lea.	iv	165	<i>carino-costata</i> Lea.
ii	242	<i>Foremani</i> Lea.	iv	165	<i>abrupta</i> Lea.
ii	242	<i>torquata</i> Lea.	iv	166	<i>pallescens</i> Lea.
ii	243	<i>producta</i> Lea.	iv	166	<i>lugubris</i> Lea.
ii	243	<i>curvata</i> Lea.	iv	166	<i>spinalis</i> Lea.
ii	243	<i>expansa</i> Lea.	iv	166	<i>spurca</i> Lea.
ii	243	<i>Anculosa incisa</i> Lea.	iv	166	<i>harpa</i> Lea.
ii	243	<i>Foremani</i> Lea.	iv	166	<i>basalis</i> Lea.
ii	243	<i>solida</i> Lea.	iv	166	<i>auriculæformis</i> Lea.
ii	243	<i>flammata</i> Lea.	iv	166	<i>pumila</i> Lea.
ii	243	<i>Paludina incrassata</i> Lea.	iv	166	<i>protea</i> Lea.
ii	243	<i>coarctata</i> Lea.	iv	166	<i>arctata</i> Lea.
May-			iv	166	<i>solida</i> Lea.
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iv	163	<i>Unio compressissimus</i>	iv	166	<i>modesta</i> Lea.
iv	163	<i>pellucidus</i> Lea. [Lea.]	iv	167	<i>Haleiana</i> Lea.
iv	163	<i>pernodosus</i> Lea.	iv	167	<i>Alexandrensis</i> Lea.
iv	163	<i>atrocostatus</i> Lea.	iv	167	<i>ovoides</i> Lea.
iv	163	<i>latecostatus</i> Lea.	iv	167	<i>Anculosa squalida</i> Lea.
iv	163	<i>hippopæus</i> Lea.	iv	167	<i>tintinnabulum</i> Lea.
iv	163	<i>simplex</i> Lea.	iv	167	<i>Schizostoma pagoda</i>
			iv	167	<i>Buddii</i> Lea. [Lea.]
			iv	167	<i>Babylonicum</i> Lea.
			iv	167	<i>constrictum</i> Lea.
			iv	167	<i>laciniatum</i> Lea.
			iv	167	<i>funiculatum</i> Lea.
			iv	167	<i>Paludina Haleiana</i> Lea.

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v	187	Remarks on Agassiz's Paper.
v	191	Remarks on Weight of Naiades.
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v	257	List of Shells described in Transactions (no description).
v	253	Fulcrum in Helix (vide Transactions).
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v	219	Agassiz.—Letter to Isaac Lea, on the Naiades, by L. AGASSIZ.

Anthony.—On the Byssus of Unio: By JOHN G. ANTHONY, Esq. With Notes by J. E. GRAY, Esq. (From Annals and Magazine of Nat. Hist. London, Sept., 1840. Vol. vi, p. 77.)

Wood, Thomson, La Montan, &c.—In the descriptions of New England, Virginia, and other parts of North America, published in the seventeenth and eighteenth centuries, occur many notices of the Shells of the country. Of no scientific value, they are still interesting to the Conchologist. As samples, I quote the following:—

Anonymous.—A perfect description of Virginia; being a full and true Relation of the present State of the Plantation, their Health, Peace, and Plenty; the number of people, with their abundance of Cattell, Fowl, Fish, &c. &c. &c. London: Printed for Richard Wodenoth, at the Star, under Peter's Church, in Cornhill. 1649.

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18 Fish are there in their kinde, above Thirty sorts:—

No. 28. Oysters.

No. 29. Cockles.

No. 30. Mussles.

Thomson.—*New England's Crisis*: by BENJAMIN THOMPSON, about 1676.
(The Prologue commences thus:—)

The times wherein old Pompion was a saint,
When men far'd hardly, yet without complaint,
On vilest Cates, the dainty Indian maize
Was eat with Clamp Shells, out of wooden Trays, &c.

Wood.—*New England's Prospect*; a true, lively, and experimental description of that part of America commonly called New England; discovering the State of that Country, both as it stands to our new-come English Planters, and to the Native Inhabitants. Laying down that which may both enrich the knowledge of the mind-travelling Reader, or benefit the future Voyager: by WILLIAM WOOD. London: Printed by John Dawson, and to be sold by John Bellamy, at his Shop, at the three Golden Lyons in Cornhill, neere the Royall Exchange. 1639.

[Chapter ix. treats of Fish, giving interesting accounts of the habits and collecting of Oysters, Clams, &c., on p. 29, 30, 31. On page 28 occurs the following:—W. G. B.]

KINDS OF SHELL-FISH.

The luscious Lobster, with the Crab-fish raw,
The Brinish Oyster, Muscle, Periwigge,
And tortoise sought by the Indian's Squaw,
Which to the flatts dance many a winter's Jigge,
To dive for Cockles, and to digge for Clams,
Whereby her lazie husband's guts she crammes.

[This valuable work was reprinted at "Boston, New England, by Thomas and John Fleet, in Cornhill; and Green and Russell, in Queen-Street, 1764," as a third edition. The above lines are on p. 38 of the reprint.—W. G. B.]

La Hontan.—*New Voyages to North America*, containing an account of the several Nations of that vast Continent, &c., written in French by the Baron LAHONTAN, &c. Done into English. Second edition. London, 1735, vol. i.

[This is an English translation of a work the second edition of which was published at "La Haye, 1706," the Shells being noticed in vol. ii. pp. 54 and 56.—W. G. B.]

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THE SHELL FISH.

Little Lobsters.
Crab Fish.
Cockles.
Muscles.

Shumard.—Catalogue of the Naiades of Jefferson County, Kentucky: by B. F. SHUMARD, M. D. (From the Naturalist's Journal of Agriculture, Horticulture, Education and Literature, Franklin College, Tennessee. Vol. I. No. 3. March, 1856.)

[This title was given me by Mr. Tryon. I have not been able to find the work.—W. G. B.]

Lea.—Reprint of Papers read and remarks made before the Academy of Natural Sciences of Philadelphia, in 1857-8. Philadelphia, 1858. Also of those in 1859-60. Philadelphia, 1860.

[The species have already been quoted from the Proceedings of the Acad.—W. G. B.]

Cooper.—Report on the Mollusca of the Survey: by WILLIAM COOPER. In the 2d part of the 12th volume of the Pacific Railroad Reports.

[This is the same as afterwards appeared in Cooper and Suckley's Natural History of Washington Territory, &c., which has been quoted on p. 274. The paging as there given is of the Pacific Railroad Report. In the separate work the paging of Mr. Cooper's paper commences at page one; the text being the same.—W. G. B.]

Green.—Notes of a Naturalist: by JACOB GREEN, M. D. (From Doughty's Cabinet of Natural History. Vol. III. No. 2. Philadelphia, 1834.)

[Only four numbers of the third volume of this work were ever published, and these are rarely preserved in Libraries, even those containing the first and second volumes complete.—W. G. B.]

Page.

35 *Helix pomum-Adami Green.*

Kirtland.—New locality of *Limnea megasoma* Say: by Dr. J. P. KIRTLAND. (From Annals of Science, &c., including the Transactions of the Cleveland Academy of Natural Sciences. Conducted by Hamilton A. Smith, A. M. Cleveland. Vol. II, No. 1. Jan. 1854.)

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6 *Limnea megasoma Say.* Alliance, Mahoning river.

Mussey.—The Proceedings of the National Institute at Washington contain several lists of Shells presented the Society. On p. 297, of 1843, is one—Ohio Valley Shells—presented by Dr. R. D. MUSSEY. There are no descriptions. The typographical errors are too numerous to repeat.

Dewey.—List of Naiades found in Western New York, and sent to the State collection at Albany, with some chiefly from Ohio: by Prof. C. DEWEY. (From Ninth Annual Report on the Condition of the State Cabinet of Natural History. Albany, 1856.)

[No descriptions are given, but some remarks on variation, locality, &c. There are several lists of Shells in the State Cabinet published in some of the other annual Reports, such as the Twelfth, and the Catalogue of the Collection—but they are not accompanied by descriptions, and rarely by localities.—W. G. B.]

Page.		Page.	
32	Unio alatus Say. <i>Mya alata</i> Wood.		<i>U. coarctata</i> Lam. <i>rarisulcata</i> Lam. <i>sulcidens</i> Lam. <i>glabrata</i> Lam.
33	radiatus Lam. <i>U. Virginiana</i> Lam. <i>Mya radiata</i> Wood.	35	Unio cariosus Say.
33	Novi-Eboraci Lea.	35	rectus Lam.
33	iris Lea.		<i>U. praelongus</i> Barnes. <i>Mya praelonga</i> Wood.
33	rubiginosus Lea. <i>U. flavus</i> Conr.	35	rosaceus De Kay.
33	gracilis Barnes. <i>U. planus</i> Barnes. <i>fragilis</i> Swains.	36	[I omit the Ohio Shells.—W. G. B.]
33	luteolus Lam. <i>U. siliquoides</i> Barnes. <i>inflatus</i> Barnes.	36	Margaritana rugosa Lea. <i>Alasmodon rugosa</i> De Kay.
34	pressus Lea. <i>U. compressus</i> De Kay.	36	marginata Lea. <i>Alasm. marginata</i> De Kay. <i>truncata</i> Say.
34	complanatus Lea. <i>U. purpureus</i> Say. <i>Mya complanata</i> Sol. <i>rigida</i> Wood.	37	undulata Lea. <i>Alasm. undulata</i> De Kay.
34	purpurascens Lam. <i>U. rhombula</i> Lam. <i>Georgina</i> Lam. <i>carinifera</i> Lam.	37	Anodonta gigantea Lea. <i>A. grandis</i> Raf.?
		37	pavonia Lea.
		37	Footiana Lea.
		37	Lewisii Lea. <i>A. fluviatilis</i> De Kay. <i>cataraeta</i> Say.
		37	fragilis Lam.

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- Anodonta Ferussaciana** Lea.
 38 *subcylindrica* Lea.
 edentula Lea.
 Unio arcolatus Sw.

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- Anodonta undulata** Say.
 Unio Pennsylvanica Lam.
 cylindrica Lea?
 Benedictensis Lea.
 imbecillis Say.

Parker.—Description of a new species of *Helix*: by SAMUEL J. PARKER. In Proc. American Ass. Adv. Science. Vol. IV, p. 348. 1841. And

Agassiz.—Criticism on the same: by LOUIS AGASSIZ.

[I introduce these references on account of their being included in Mr. Tryon's Catalogue of American Conchological Writings. No specific name or description was given of the supposed new species.—W. G. B.]

Billings.—Notes on the Natural History of the Mountain of Montreal. (From the Canadian Naturalist and Geologist, vol. ii, No. 2. May, 1857, p. 92.) Terrestrial Mollusca, p. 97: by E. B. [E. BILLINGS.]

Page Fig.

- 98 2, 3 **Helix albolabris** Say.
 99 4, 5 *alternata* Say.
 100 6 *monodon* Rackett.

Anonymous.—Description of some of the Fresh-water Gastropoda inhabiting the Lakes and Rivers of Canada. (From the same as the last article, vol. ii, No. 3. July, 1857.)

Page. Fig.

- 196 1, 2 **Limnæastagnalis** Linn.
 197 (fig.) *columella* Say.
 197 (fig.) var. *chalybea*.
 198 (fig.) *macrostoma* Say.
 198 (fig.) *desidiosa* Say.
 199 (fig.) *elodes* Say.
 201 (fig.) *catascopium* Say.
 202 (fig.) **Planorbis trivolvis** S.
 203 (fig.) *lentus* Say.
 204 (fig.) *bicarinatus* Rackett.
 204 (fig.) *campanulatus* Say.
 205 (fig.) *armigerus* Say.
 206 (fig.) *hirsutus* Gould.

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- 206 (fig.) **Planorbis deflectus** Say.
 207 (fig.) *exacutus* Say.
 208 (fig.) *parvus* Say.
 209 (fig.) *dilatatus*.
 209 (fig.) **Physa heterostropha**
 211 (fig.) *ancillaria* Say. [Say.
 211 (fig.) *elongata* Say.
 212 (fig.) **Ancylus rivularis** Say.
 212 (fig.) *fuscus* Adams.
 213 (fig.) **Valvata tricarinata** S.
 214 (fig.) *pupoidea* Gould.
 214 (fig.) **Ammicola porata** Say.

Dawson.—A Week in Gaspé, p. 321. Marine Invertebrates collected in Gaspé Bay, lat. 48°, 45' N. Aug. 1858, p. 320: by J. W. D. [Dr. DAWSON.] (From same as last, vol. iii, No. 5. Oct. 1858.)

Page.		Page.	
329	<i>Loligo illecebrosa.</i>	330	<i>Saxicava rugosa.</i>
329	<i>Fusus pyramidatus (rufus).</i>	330	<i>Machæra costata.</i>
329	<i>Buccinum undatum.</i>	330	<i>Solen ensis.</i>
329	<i>trivittatum.</i>	330	<i>Tellina calcarea.</i>
329	<i>Purpura lapillus.</i>		<i>T. proxima.</i>
330	<i>Natica heros.</i>	330	<i>Grœnlandica.</i>
330	<i>Grœnlandica.</i>	330	<i>tenera.</i>
330	<i>clausa.</i>	330	<i>Aphrodite Grœnlandica.</i>
330	<i>Turritella erosa.</i>	330	<i>Cardium Islandicum.</i>
330	<i>Lacuna vineta.</i>	330	<i>pinnulatum.</i>
330	<i>Littorina palliata.</i>	330	<i>Astarte sulcata.</i>
330	<i>rudis.</i>	330	<i>Cardita borealis.</i>
330	<i>Margarita undulata.</i>	330	<i>Mytilus edulis.</i>
330	<i>helicina.</i>	330	<i>Modiola modiolus.</i>
	<i>M. arctica.</i>	330	<i>decussata.</i>
330	<i>Lottia testudinalis.</i>		<i>M. glandula.</i>
330	<i>Acmaea cæca.</i>	330	<i>Leda limatula.</i>
330	<i>Chiton marmoreus.</i>	330	<i>Pecten Islandicus.</i>
330	<i>Mya arenaria.</i>	330	<i>Magellanicus.</i>
330	<i>truncata.</i>	330	<i>Anomia ephippium.</i>
330	<i>Glycimeris siliqua.</i>	330	<i>var. aculeata.</i>

Dawson.—On the Newer Pliocene and Post-Pliocene Deposits of the Vicinity of Montreal, with notices of Fossils recently discovered in them: by J. W. DAWSON, L. L. D., &c. (From the same as last, Canadian Naturalist, vol. ii, No. 6. Dec. 1857.) And Additional Notes on the Post-Pliocene Deposits of the St. Lawrence Valley, vol. iv, No. 1. Feb. 1859.

[There are several lists of fossil Shells specified in these papers as also found recent.—W. G. B.]

Carpenter.—Note on the Mollusks and Radiates from Labrador: by P. P. CARPENTER. (From the same as last, vol. iv, part 2. April, 1859.)

Page.		Page.	
158	<i>Buccinum undatum.</i>	158	<i>Lottia</i> (<i>Tectura</i>) <i>testudi-</i>
158	<i>Trophon</i> (<i>Fusus</i>) <i>sculari-</i> <i>forme.</i>	158	<i>Saxicava rugosa.</i> [nalis.
158	<i>Rostellaria occidentalis.</i>	158	<i>Mya arenaria.</i>
158	<i>Littorina rudis.</i>	158	<i>Solen ensis.</i>
158	<i>littorea.</i>	158	<i>Tellina Grœnlandica.</i>
	<i>L. palliata.</i>	158	<i>Mytilus edulis.</i>
158	<i>Margarita helecina.</i>	158	<i>Pecten Magellanicus.</i>
	<i>M. arctica.</i>		

Bell.—Notes on the Natural History of the Gulf of St. Lawrence, and the distribution of the Mollusca of Eastern Canada: by ROBERT BELL, Jr. (From the same as last, vol. iv, part 3, p. 197. June, 1859.)

[The localities, but no descriptions are given.—W. G. B.]

Page.		Page.	
210	<i>Fusus scalariformis.</i>	211	<i>Rostellaria occidentalis.</i>
210	<i>Islandicus.</i>	211	<i>Rissoa minuta.</i>
210	<i>tornatus.</i>	211	<i>Lacuna vineta.</i>
210	<i>decemcostatus.</i>	211	<i>Littorina palliata.</i>
210	<i>rufus.</i>	211	<i>rudis.</i>
210	<i>Bamffius.</i>	211	<i>tenebrosa.</i>
210	<i>Pleurotoma bicarinata.</i>	211	<i>Margarita cinerea.</i>
210	<i>Buccinum undatum.</i>	211	<i>undulata.</i>
211	<i>Donovani.</i>	211	<i>helicina.</i>
211	<i>Nassa trivittata.</i>	212	<i>Skenea costulata.</i>
211	<i>obsoleta.</i>	212	<i>Diadora noachina.</i>
211	<i>Purpura lapillus.</i>	212	<i>Crepidula fornicata.</i>
211	<i>Trichotropis borealis.</i>	212	<i>plana.</i>
211	<i>Velutina haliotoides.</i>	212	<i>Acmaea</i> (<i>Lottia</i>) <i>testudina-</i>
	<i>V. lavigata.</i>	212	<i>cæca.</i> [lis.
211	<i>Lamellaria perspicua.</i>	212	<i>Chiton marmoreus.</i>
211	<i>Natica heros.</i>	212	<i>Planorbis trivolvus.</i>
211	<i>clausa.</i>	212	<i>campanulatus.</i>
211	<i>triseriata.</i>	212	<i>bicarinatus.</i>
211	<i>flava?</i>	212	<i>lentus.</i>
211	<i>helicoides.</i>	212	<i>parvus.</i>

Page.		Page.	
212	Physa heterostropha.	216	Osteodesma hyalina.
213	aurea.	216	Machæra costata.
213	ancillaria.	216	Solen ensis.
213	elongata.	216	Tellina proxima.
213	Limnæa megasoma.		<i>T. calcarca.</i>
213	jugularis.	216	Grœnlandica.
	<i>L. stagnalis.</i>	216	Mactra ovalis.
213	caperata.		<i>M. ponderosa.</i>
213	umbrosa.	216	Mesodesma arctatum.
213	elodes.	217	Venus mercenaria.
213	catascopium.	217	gemma.
213	opacina.	217	Aphrodite Grœnlandica.
213	acuta.	217	Cardium Islandicum.
213	Ancylus rivularis.	217	Cardita borealis.
213	Paludina decisa.	217	Astarte sulcata.
213	Melania acuta.	217	Lucina flexuosa.
213	Niagarensis.	217	Lima subauriculata.
213	Amnicola porata.	217	Mytilus edulis.
213	Valvata tricarinata.	218	Modiola discors.
213	sincera.		<i>M. discrepans.</i>
214	Helix alternata.	218	plicatula.
214	albolabris.	218	glandula.
214	monodon.	218	pectinula.
214	exoleta.	218	neza.
214	tridentata.	218	Leda limatula.
214	concava.	218	Nucula tenuis.
214	hortensis.	218	Pecten Magellanicus.
215	arborea.	218	Islandicus.
215	striatella.	219	Anomia ephippium.
215	lineata.	219	Terebratula psittacea.
215	labyrinthica.		<i>Hippothyris.</i>
215	pulchella.	219	Ascidium ———.
215	electrina.	219	Unio radiatus.
215	chersina.	219	complanatus.
215	Bulimus lubricus.	219	gibbosus.
215	harpa.	219	ventricosus.
215	Vitрина pellucida.	219	ellipsis.
215	Succinea ovalis.	219	rectus.
215	avara.	219	alatus.
215	obliqua.	220	Margaritana rugosa.
216	Pholas crispata.	220	marginata.
216	Saxicava rugosa.	220	arcuata.
216	Mya arenaria.		<i>M. margaritifera.</i>
216	truncata.	220	undulata.
216	Glycimeris siliqua.	220	Anodonta subcylindracea.

Page.		Page.	
220	<i>Anodonta pavonia.</i>	220	<i>Cyclas similis.</i>
220	<i>fluviatilis?</i>	220	<i>orbiculata.</i>
		220	<i>dubia.</i>

Lea.—Observations on the genus *Unio*, &c.: by ISAAC LEA, LL. D., President of the Academy of Natural Sciences of Philadelphia, &c.

[Under this title are collected in seven volumes all the descriptions of Mollusca by this author. The original papers were published in the Transactions of the American Philosophical Society, and the Journal of the Academy of Natural Sciences of Philadelphia (new series.) Short diagnoses were also published in the Proceedings of the same Societies. In the following list the numerous foreign species are omitted. As great confusion has arisen regarding the synonymy of the American Naiades, owing principally to questions of priority of publication, I have given the dates of the various papers of Mr. Lea as carefully as possible. In the earlier volumes of the Philosophical Society many of Mr. Lea's papers were published anterior to the completion of the whole volume, but, as no separate dates are given, I am unable to do justice to Mr. Lea. I know of no other rule than to take the date of the title page of the complete volume, unless some other date is given to the separate parts, or with the signatures of the printers.

Any one desiring further information regarding the actual printing of the various papers is referred to Mr. Lea's "Rectification," in the Proceedings of the Philadelphia Academy.

Reference is given to the Transactions of the Philosophical Society and Journal of the Academy, as well as to the volumes of the "Observations," the numbering of the plates being the same in each.—W. G. B.]

TRANS.			OBS.		Name.	Locality.
Vol. iii, 1830.			V.	Pa.		
Pa.	Pl.	Fig.				
259			i	1	Lea. —Descriptions of six new species of the genus <i>Unio</i> , embracing the anatomy of the oviduct of one of them, together with some Anatomical Observations on the Genus. (From Trans. Am. Phil. Soc. (n. s.), vol. iii, p. 259. Date of title, 1830.)	
265	iii	1	i	7	<i>Unio calceolus</i> Lea.	Ohio.
266	iii	2	i	8	<i>lanceolatus</i> Lea.	Tar river, N. C.
267	iv	3	i	9	<i>donaciformis</i> Lea.	Ohio.
268	iv	4	i	10	<i>ellipsis</i> Lea.	Ohio.
269	v	5	i	11	<i>irroratus</i> Lea.	Ohio.
272	vi	8	i	14	<i>lachrymosus</i> Lea.	Ohio.

TRANS. Vol. iii, 1830.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
403			i	17	Lea. —Description of a new genus of the family of Naiades, including eight species, four of which are new; also the description of eleven new species of the Genus <i>Unio</i> from the rivers of the United States; with observations on some of the characters of the Naiades, &c. &c.	
					On p. 415 is the following Synonymy of the species.	
415			i	29	Unio radiatus. ¹	
					<i>U. Virginiana</i> Lam.	
416			i	30	complanatus Solander.	
					<i>U. purpurcus</i> Say.	
					<i>U. rarisulcata</i> Lam.	
					<i>U. coarctata</i> Lam.	
					<i>U. purpurascens</i> Lam.	
					<i>U. rhombula</i> Lam.	
					<i>U. carinifera</i> Lam.	
					<i>U. georgina</i> Lam.	
					<i>U. sulcileus</i> Lam.	
					<i>U. Caroliniana</i> Bosc.	
					<i>U. fluviatilis</i> Green.	
417			i	31	ovatus Say.	
417			i	31	cariosus Say.	
					<i>U. luteola</i> Lam.	
					<i>U. crassus</i> Say.	
					<i>U. carinatus</i> Barnes.	
					<i>U. ellipticus</i> Barnes.	
417			i	31	nasutus Say.	
					<i>U. rostrata</i> Val.	
417			i	31	cylindricus Say.	
					<i>U. naviformis</i> Lam.	
417			i	31	subtentus Say.	
417			i	31	plicatus Lesueur.	
					<i>U. crassidens</i> Lam.?	
					<i>U. Peruvianus</i> Lam.	
					<i>U. rariplicata</i> Lam.	
					<i>U. undulatus</i> Barnes.	
					<i>U. crassus</i> Barnes.	
					<i>U. Dombeyana</i> Val.	
418			i	32.	rectus Lam.	
					<i>U. praelongus</i> Barnes.	

¹ In these and the following pages will be found a great deal of information regarding Synonymy, which I have not been able to include in my extract.—W. G. B.

TRANS. Vol. iii, 1830.		OBS.		Name.
Pa.	Pl. Fig.	V.	Pa.	
				<i>U. nasuta</i> Lam.
				<i>U. purpurata</i> Lam.
418		i	32	Unio torsus Raf.
418		i	32	mytiloides Raf.
				<i>U. undatus</i> Barnes.
418		i	32	metanever Raf.
				<i>U. nodosus</i> Barnes.
				<i>U. rugosus</i> Barnes.
418		i	32	scalenius Raf.
418		i	32	cornutus Barnes.
419		i	33	verrucosus Barnes.
				<i>U. tuberculosa</i> Val.
				<i>U. verrucosa</i> Val.
419		i	33	tuberculatus Barnes.
419		i	33	gibbosus Barnes.
				<i>U. mucronatus</i> Barnes.
419		i	33	cuneatus Barnes.
419		i	33	ventricosus Barnes.
419		i	33	siliquoides Barnes.
				<i>U. inflatus</i> Barnes.
419		i	33	triangularis Barnes.
420		i	34	parvus Barnes.
420		i	34	æsopeus Green.
420		i	34	calceolus Lea.
420		i	34	lanceolatus Lea.
420		i	34	donaciformis Lea.
420		i	34	ellipsis Lea.
420		i	34	irroratus Lea.
420		i	34	lachrymosus Lea.
420		i	34	ater Lea.
420		i	34	rubiginosus Lea.
420		i	34	heterodon Lea.
420		i	34	sulcatus Lea.
420		i	34	planulatus Lea.
420		i	34	circulus Lea.
420		i	34	multiradiatus Lea.
420		i	34	occidens Lea.
420		i	34	securis Lea.
421		i	35	iris Lea.
421		i	35	zig-zag Lea.
421		i	35	patulus Lea.

From p. 421 to 426 is a review of Lamark's species of Naiades.

TRANS. Vol. iii, 1830.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
426	vii	9	i	40	Unio ater <i>Lea.</i>	Miss. r. bel. Natchez.
427	viii	10	i	41	rubiginosus <i>Lea.</i>	Ohio.
428	viii	11	i	42	heterodon <i>Lea.</i>	Sch. & Derby cr. Pa.
430	viii	12	i	44	sulcatus <i>Lea.</i>	Ohio.
431	ix	13	i	45	planulatus <i>Lea.</i>	Ohio.
433	ix	14	i	47	circulus <i>Lea.</i>	Cincinnati, Pittsb'g,
					<i>U. rotundata</i> Lam.?	[Natchez.
434	ix	15	i	48	multiradiatus <i>Lea.</i>	Ohio.
435	x	16	i	49	occidens <i>Lea.</i>	Ohio.
437	xi	17	i	51	securis <i>Lea.</i>	Ohio.
					<i>U. depressa</i> Raf. preoc.	
439	xi	18	i	53	iris <i>Lea.</i>	Ohio.
440	xii	19	i	54	zig zag <i>Lea.</i>	Ohio.
441	xii	20	i	55	patulus <i>Lea.</i>	Ohio.
442			i	56	Symphynota <i>Lea.</i> (n. g.)	
444	xiii	23	i	58	lævissima <i>Lea.</i>	Ohio.
448			i	62	alata <i>Say.</i>	Western waters.
					<i>Unio alatus</i> Say.	
448			i	62	complanata <i>Barnes.</i>	Fox riv. Wisc., O.
					<i>Alasm. complanata</i> Barn.	
450	xii	22	i	64	compressa <i>Lea.</i>	O., Albany.
452			i	66	gracilis.	Ohio, Wisconsin.
					<i>U. gracilis</i> Barnes.	
					<i>U. fragilis</i> Swains.	
					<i>U. planus</i> Barnes.	
453	xi	21	i	67	tenuissima <i>Lea.</i>	Ohio.
455			i	69	ochracea.	Sch. and Del. rivers.
					<i>U. ochraceus</i> Say.	
Vol. iv, 1834.					Name.	Locality.
63			i	73	Lea. —Observations on the Naiades, and descriptions of new species of that and other families.	
					Date of title of vol. iv, 1834.	
69	iii	1	i	79	Unio trapezoides <i>Lea.</i>	Lake St. Joseph, La.
70	iv	2	i	80	multiplicatus <i>Lea.</i>	Tenn. and Ohio rivs.
71	v	3	i	81	asperrimus <i>Lea.</i>	Ohio.
72	vi	4	i	82	Congaræus <i>Lea.</i>	Congaree river, S. C.
73	vi	5	i	83	oriens <i>Lea.</i>	Ohio river.
75	vi	6	i	85	brevidens <i>Lea.</i>	Ohio.
76	vii	7	i	86	pustulosus <i>Lea.</i>	Ohio and Alabama r.
77	vii	8	i	87	stapes <i>Lea.</i>	Alabama river.
79	vii	9	i	89	pustulatus <i>Lea.</i>	Ohio, Tennessee.
80	viii	10	i	90	lens <i>Lea.</i>	Ohio, Tennessee.
81	viii	11	i	91	anodontoides <i>Lea.</i>	Ala., O., Miss. rivs.

TRANS. Vol. iv, 1834.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
82	viii	12	i	92	Unio glans <i>Lea.</i>	Ohio river.
83	ix	13	i	93	elegans <i>Lea.</i>	Ohio river.
84	ix	14	i	94	ebenus <i>Lea.</i>	Ohio river.
85	ix	15	i	95	asper <i>Lea.</i>	Alabama river.
85	x	16	i	96	fabalis <i>Lea.</i>	Ohio river.
87	x	17	i	97	soleniformis <i>Lea.</i>	Ohio river.
89	x	18	i	99	acutissimus <i>Lea.</i>	Alabama river.
90	xi	20	i	100	varicosus <i>Lea.</i>	Ohio river.
91	xi	21	i	101	castaneus <i>Lea.</i>	Alabama river.
92	xii	23	i	102	decisus <i>Lea.</i>	Alabama river.
94	xii	24	i	104	cuprinus <i>Lea.</i>	Mexico.
96	xiii	26	i	106	obesus <i>Lea.</i>	York river, Va.
99	xiv	28	i	109	Symphynota inflata <i>Lea.</i>	Alabama river.
100	xv	30	i	110	Melania subularis <i>Lea.</i>	Niagara river.
101	xv	31	i	111	tuberculata <i>Lea.</i>	Tennessee river.
101	xv	32	i	111	acuta <i>Lea.</i>	Tennessee river.
102	xv	33	i	112	Helix Carolinensis <i>Lea.</i>	Cheraw, S. C.
103	xv	34	i	113	Carocolla helicoides <i>Lea.</i>	Nashville, Tenn.
					<i>H. palliata</i> (var. a.) <i>Say?</i>	
104	xv	35	i	114	spinosa <i>Lea.</i>	Claiborne, Ala.
104	xv	36	i	114	Valvata arenifera <i>Lea.</i>	Nashville, Tenn.
109	xvi	39	i	119	Unio pyramidatus <i>Lea.</i>	Ohio.
					<i>U. undatus</i> Barn. (var. a.)?	
110	xvi	40	i	120	trigonus <i>Lea.</i>	Ohio river.
111	xvi	41	i	121	formosus <i>Lea.</i>	Ohio river.
112	xvii	42	i	122	perplexus <i>Lea.</i>	Ohio river.
114	xvii	43	i	124	angustatus <i>Lea.</i>	Congaree and Cooper
116	xvii	44	i	126	arcæformis <i>Lea.</i>	Tenn. r. [rivs., S. C.
117	xviii	45	i	127	subrotundus <i>Lea.</i>	Ohio.
118	xviii	46	i	128	subovatus <i>Lea.</i>	Ohio river.
119	xviii	47	i	129	pileus <i>Lea.</i>	Ohio river.
120	xv	29	i	130	Melania elongata <i>Lea.</i>	Western Tenn.
122			i	132	Lea. —Description of a new genus of the family Melaniana of Lamarck.	
122			i	132	Io <i>Lea</i> (n. g.)	
122	xv	37	i	132	fusiformis <i>Lea.</i>	Holston river.
					<i>Fusus fluviatilis</i> <i>Say.</i>	
Vol. v, 1837.						
23			i		Lea. —Observations, &c. continued. Date of title of vol. v., 1837.	
27			i	139	<i>Valvata arenifera</i> = Phrygania.	
29	ii	2	i	141	Unio capillaris <i>Lea.</i>	Ohio.

TRANS. V. l. v, 1837.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
30	ii	3	i	142	Unio subglobosus <i>Lea.</i>	Bayou Teche, La.
31	ii	4	i	143	capsæformis <i>Lea.</i>	Cumberland river.
32	iii	5	i	144	Ravenelianus <i>Lea.</i>	French Br. r., N. C.
35	iii	7	i	147	Haysianus <i>Lea.</i>	Cumberland river.
36	iii	8	i	148	Hildrethianus <i>Lea.</i>	Marietta, O.
37	iii	9	i	149	Schoolcraftensis <i>Lea.</i>	Fox riv., Green Bay.
38	iv	10	i	150	geometricus <i>Lea.</i>	Bayou Teche, La.
39	iv	11	i	151	Taitianus <i>Lea.</i>	Alabama river.
41	iv	12	i	153	Symphynota globosa <i>Lea.</i>	Ohio river.
45	vi	15	i	157	Anodonta Ferussaciana	Ohio river.
46	vi	16	i	158	incerta <i>Lea.</i>	[<i>Lea.</i> Ohio river.
47	vi	17	i	159	Stewartiana <i>Lea.</i>	River Teche, La.
48	vii	18	i	160	plana <i>Lea.</i>	Bear Grass cr., Louis-
58	xix	71	i	170	Paludina bimonilifera <i>Lea.</i>	Alabama r. [ville.
61	viii	21	i	173	Unio Cooperianus <i>Lea.</i>	Alabama river.
63	ix	23	i	175	Conradicus <i>Lea.</i>	
68	x	28	i	180	Sowerbyanus <i>Lea.</i>	Tennessee. [Tenn.
70	x	29	i	182	dromas <i>Lea.</i>	Harp. and Cum. riv.,
71	x	30	i	183	Troostensis <i>Lea.</i>	Cumberland river.
72	xi	31	i	184	perdix <i>Lea.</i>	Harpeth river, Tenn.
73	xi	32	i	185	pictus <i>Lea.</i>	[<i>Lea.</i> Harpeth river, Tenn.
84	xix	78	i	196	Achatina Vanuxemensis	Mexico.
85			i	197	striata.	
					<i>Cochlicopea rosca</i> Fer.	
					<i>Polypheusus glans</i> Say.	
86			i	198	Lea. —Observations on Lamark's Collection of Naiades.	
					[Both foreign and American species.—W. G. B.]	
86			i	198	Unio crassissima <i>Klein.</i>	
					<i>U. sinuata.</i>	
87			i	199	<i>U. elongata</i> = Mya margaritifera.	
87			i	199	crassidens.	
					<i>U. cuneatus.</i>	
87			i	199	<i>U. crassidens</i> (var. a.) = trapezoides <i>Lea.</i>	
87			i	199	<i>U. Peruviana</i> = plicatus <i>Les.</i>	
87			i	199	purpurata <i>Lam.</i>	
					<i>U. ater</i> <i>Lea.</i>	
88			i	200	<i>U. ligamentina</i> = crassus <i>Say.</i>	
88			i	200	<i>U. obliqua</i> = undatus <i>Barnes.</i>	
88			i	200	<i>U. retusa</i> = torsus <i>Raf.</i>	
88			i	200	<i>U. rarissulcata</i> = complanatus.	
88			i	200	<i>U. coarctata</i> = complanatus.	

TRANS. Vol. v, 1837.		Obs.	Name.
Pa.	Pl. Fig.	V. Pa.	
88		i 200	<i>U. purpurascens</i> = <i>complanatus</i> .
88		i 200	Unio radiata.
88		i 200	<i>U. brevis</i> = <i>littoralis</i> .
88		i 200	<i>U. rhombula</i> = <i>complanatus</i> .
89		i 201	<i>U. carinifera</i> = <i>complanatus</i> .
89		i 201	<i>U. Georgina</i> = <i>complanatus</i> .
89		i 201	<i>U. clava</i> = <i>scalenia</i> Raf. (<i>modioliformis</i> Say.)
89		i 201	recta = <i>U. praelongus</i> Barnes.
89		i 201	<i>U. naviformis</i> = <i>cylindricus</i> .
89		i 201	<i>U. nasuta</i> = <i>gibbosus</i> .
89		i 201	<i>U. ovata</i> = <i>ovatus</i> Say.
89		i 201	<i>U. rotundatus</i> = <i>suborbiculata</i> .
89		i 201	<i>U. subglobosus</i> Lea = <i>globulus</i> Say.
89		i 201	littoralis = <i>U. semirugata</i> Lam.
90		i 202	<i>U. incurvus</i> Lea?
90		i 202	<i>U. semirugata</i> = <i>littoralis</i> .
90		i 202	<i>U. nana</i> = <i>littoralis</i> .
90		i 202	<i>U. delodonta</i> = <i>lacteolus</i> ?
90		i 202	<i>U. sulcidens</i> = <i>complanatus</i> .
90		i 202	<i>U. rostrata</i> = <i>pictorum</i> .
90		i 202	Batava.
91		i 203	<i>U. nodulosa</i> = <i>ovata</i> .
91		i 203	<i>U. varicosa</i> = <i>Alasmodonta marginata</i> .
91		i 203	granosa.
91		i 203	depressa.
91		i 203	<i>U. Virginiana</i> = <i>radiatus</i> .
91		i 203	luteola. <i>U. siliquoideus</i> Barnes.
91		i 203	angusta.
91		i 203	<i>U. manca</i> = <i>pictorum</i> .
92		i 204	<i>U. cariosa</i> = <i>Alasmodonta marginata</i> .
92		i 204	spuria.
92		i 204	australis.
92		i 204	<i>U. anodontina</i> = <i>marginalis</i> .
92		i 204	<i>U. suborbiculata</i> = <i>rotundata</i> .
92		i 204	Hyria avicularis = <i>Mya symmatophora</i> .
92		i 204	corrugata.
92		i 204	Anodonta cygnea. <i>Mytilus cygneus</i> .
93		i 204	An. anatina.
93		i 205	<i>An. sulcata</i> = <i>An. cygnea</i> .
93		i 205	An. fragilis.

TRANS. Vol. v, 1837.		OBS.		Name.	Locality.
Pa.	Pl. Fig.	V.	Pa.		
93		i	205	<i>An. rubens.</i>	
93		i	205	<i>An. crispata.</i>	
93		i	205	<i>An. uniopsis.</i>	
93		i	205	<i>An. Pennsylvanica</i> = <i>undulata</i> Say (<i>rugosus</i> Sw.)	
93		i	205	<i>An. intermedia</i> = <i>anatina.</i>	
93		i	205	<i>An. intermedia</i> Pfr. = <i>cygnea.</i>	
93		i	205	<i>An. trapezialis</i> = <i>giganteus.</i>	
93		i	206	<i>An. exotica.</i>	
94		i	206	<i>An. glauca.</i>	
94		i	206	<i>An. sinuosa.</i>	
94		i	206	<i>An. Patagonica.</i>	
94		i	206	<i>Iridina nilotica.</i>	
				<i>I. Clappertoni</i> Denman.	
95	xiii 38	i	207	<i>Unio Shepardianus</i> Lea.	Darien, Ga.
96	xiii 39	i	208	<i>fulvus</i> Lea.	S. C.
97	xiii 40	i	209	<i>modioliformis</i> Lea.	Santee canal, S. C.
98	xiv 41	i	210	<i>Kirtlandianus</i> Lea.	Mahoning, O.
100	xiv 43	i	212	<i>Nashvillianus</i> Lea.	Cumberland r., Ohio riv., Louisville.
101	xv 44	i	213	<i>Blandingianus</i> Lea.	St. John's riv., Fla.?
102	xv 45	i	214	<i>camelus</i> Lea.	Ohio river.
103	xv 46	i	215	<i>Griffithianus</i> Lea.	S. C.
103	xvi 47	i	215	<i>confertus</i> Lea. [<i>sis</i> Lea.	Santee canal, S. C.
104	xvi 48	i	216	<i>Symphynota Benedicten-</i>	Lake Champlain.
106	xvii 50	i	218	<i>Margaritana Raveneliana</i>	French Broad and Lea. Swananoë r., N. C.
112	xix 79	i	224	<i>Io spinosa</i> Lea.	Holston river, Va.
114	xix 81	i	226	<i>Lymnæa acuta</i> Lea.	Philadelphia.
114	xix 82	i	226	<i>exilis</i> Lea.	Ohio.
115	xix 83	i	227	<i>Physa elliptica</i> Lea. [<i>Lea.</i>	
115	xix 84	i	227	<i>Ampullaria Hopetonensis</i>	Hopeton, Ga.
116	xix 85	i	228	<i>Paludina Georgiana</i> Lea.	Hopeton, Ga.
117	xix 86	i	229	<i>Succinea retusa</i> Lea.	Cincinnati, O.

Vol. vi, 1839.

Lea.—Descriptions of new Fresh Water and Land Shells, from vol. vi, part 1, 1839.

1	i	1	ii	1	<i>Anodonta gigantea</i> Lea.	Port Gibson.
2	ii	2	ii	2	<i>ovata</i> Lea.	Marietta, O.
4	ii	4	ii	4	<i>Unio venustus</i> Lea.	O., Mo.
5	iii	5	ii	5	<i>Vaughanianus</i> Lea.	Camden, S. C.
6	iii	6	ii	6	<i>pulcher</i> Lea.	Nashville, Tenn.
7	iii	7	ii	7	<i>obscurus</i> Lea.	Nashville, Tenn.
8	iv	8	ii	8	<i>Fisherianus</i> Lea.	Chester river, Md.

TRANS. Vol. vi, 1839.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
9	iv	9	ii	9	Unio jejunos <i>Lea.</i>	Cam'n, Roanoke, S. C.
10	iv	10	ii	10	arctior <i>Lea.</i>	Cincinnati.
11	v	11	ii	11	turgidus <i>Lea.</i>	New Orleans.
12	v	12	ii	12	coccineus <i>Lea.</i>	Ohio.
13	v	13	ii	13	solidus <i>Lea.</i>	Ohio.
14	vi	14	ii	14	Hydianus <i>Lea.</i>	Louisiana.
15	vi	15	ii	15	interruptus <i>Lea.</i>	Harpeth river, Tenn.
17	xxiii	81	ii	17	Paludina hyalina <i>Lea.</i>	Poland, O.
17	xxiii	98	ii	17	Melania inflata <i>Lea.</i>	Indian creek, Va.
18	xxiii	106	ii	18	Physa aurea <i>Lea.</i>	Hot Spring, Va.
22	xxiii	104	ii	22	Paludina pallida <i>Lea.</i>	Cincinnati.
23	vii	17	ii	23	Unio pumilus <i>Lea.</i>	Black river, N. C.
24	vii	18	ii	24	Tampicoensis <i>Lea.</i>	Tampico, &c., Mex.
25	vii	19	ii	25	Cumberlandicus <i>Lea.</i>	Cumb'land r., Tenn.
26	viii	20	ii	26	simus <i>Lea.</i>	Cumb'land r., Tenn.
27	viii	21	ii	27	Roanokensis <i>Lea.</i>	Roanoke riv., N. C., Altamaha r., Ala.
28	viii	22	ii	28	notatus <i>Lea.</i>	Cumberland river.
28	ix	23	ii	28	Jayensis <i>Lea.</i>	Florida.
29	ix	24	ii	29	Hopetonensis <i>Lea.</i>	Hopeton.
30	ix	25	ii	30	lugubris <i>Lea.</i>	Hopeton.
31	x	26	ii	31	Barnesianus <i>Lea.</i>	Cumb'land r., Tenn.
32	x	27	ii	32	Zeiglerianus <i>Lea.</i>	Cumb'land r., Tenn.
33	x	28	ii	33	creperus <i>Lea.</i>	Tennessee.
34	x	29	ii	34	glaber <i>Lea.</i>	Holston riv., Tenn.
35	x	30	ii	35	gibber <i>Lea.</i>	Carryfork r., Tenn.
36	xi	31	ii	36	Vanuxemensis <i>Lea.</i>	Cumb'land r., Tenn.
37	xi	32	ii	37	carbonarius <i>Lea.</i>	Medellin riv., Mex.
38	xi	33	ii	38	folliculatus <i>Lea.</i>	Savannah river.
39	xii	34	ii	39	Medellinus <i>Lea.</i>	Medellin river, near Vera Cruz.
40	xii	35	ii	40	Lecontianus <i>Lea.</i>	Conochee river, Ga.
41	xii	36	ii	41	Muhlfeldianus <i>Lea.</i>	Cumb'land r., Tenn.
42	xiii	37	ii	42	Margaritana Holstonia	Holston river.
43	xiii	38	ii	43	deltoidea <i>Lea.</i> [<i>Lea.</i>	Cincinnati, O.
44	xiii	39	ii	44	fabula <i>Lea.</i>	Cumb'land r., Tenn.
45	xiii	40	ii	45	Anodonta cylindracea <i>Lea.</i>	Medellin r., near V.
45	xiv	41	ii	45	salmonia <i>Lea.</i>	Poland, O. [<i>Cruz.</i>
46	xiv	42	ii	46	Wardiana <i>Lea.</i>	Chillicothe, O.
47	xiv	43	ii	47	Buchanensis <i>Lea.</i>	Buck creek, O.
48-57	xv		ii	48-57	Anatomy of <i>Naiades</i> .	
57	xvi	50	ii	57	Unio spinosus <i>Lea.</i>	Altamaha, Ga.
61	xvii	53	ii	61	pliciferus <i>Lea.</i>	Mexico.

TRANS. Vol. vi, 1839.			OBS.		
Pa.	Pl.	Fig.	V.	Pa.	
62	xvii	55	ii	62	Unio Tappanianus <i>Lea.</i> Juniata river. <i>U. viridis</i> Conr. non. <i>Raf.</i>
64	xx	63	ii	64	Anodonta decora <i>Lea.</i> Ohio.
67	xxiii	82	ii	67	Helix Wardiana <i>Lea.</i> Ohio.
68	xxiii	83	ii	68	Planorbis lens <i>Lea.</i> Cincinnati.
69			ii	69	Note on Carocolla spinosa.
69	xix	60	ii	69	Unio graniferus <i>Lea.</i> Cincinnati.
70	xix	61	ii	70	splendidus <i>Lea.</i> Altamaha river, Ga.
71	xxii	69	ii	71	Margaritana arcula <i>Lea.</i> Altamaha river, Ga.
73	xvii	54	ii	73	Unio Dorfeuillianus <i>Lea.</i> Ohio.
76	xix	59	ii	76	Menkianus <i>Lea.</i> Harpeth river, Tenn.
77	xx	62	ii	77	Anodonta Nuttalliana <i>Lea.</i> Wahlamat riv., Or.
78	xx	64	ii	78	Wahlamatensis <i>Lea.</i> Wahlamat riv., Or.
78	xxi	65	ii	78	pavonia <i>Lea.</i> Little Beaver r., O.
79	xxi	66	ii	79	Newtoniensis <i>Lea.</i> Newtown cr., N. J.
80	xxi	67	ii	80	Oregonensis <i>Lea.</i> Wahlamat river.
87	xxiii	71	ii	87	Helix Mitchelliana <i>Lea.</i> Ohio.
87	xxiii	72	ii	87	Vancouverensis <i>Lea.</i> Fort Vancouver, Or.
88	xxiii	74	ii	88	Nuttalliana <i>Lea.</i> Fort Vancouver, Or.
89	xxiii	75	ii	89	Columbiana <i>Lea.</i> Fort Vancouver, Or.
91	xxiii	93	ii	91	Paludina virens <i>Lea.</i> Wahlamat, Or.
91	xxiii	103	ii	91	nucloa <i>Lea.</i> Wahlamat, Or.
92	xxiii	109	ii	92	Nickliniana <i>Lea.</i> Hot Springs, Va.
92	xxiii	86	ii	92	Melania Troostiana <i>Lea.</i> Mossy creek, Tenn.
93	xxiii	90	ii	93	plicifera <i>Lea.</i> Wahlamat, Or.
93			ii	93	<i>M. tuberculata</i> <i>Lea</i> = <i>Spixiana</i> <i>Lea.</i>
94	xxiii	91	ii	94	Lymnæa solida <i>Lea.</i> Wahlamat, Or.
95	xviii	56	ii	95	Unio Rangianus <i>Lea.</i> Ohio.
96	xvi	51	ii	96	Pepinianus <i>Lea.</i> Lake Pepin, O.
97	xvi	52	ii	97	Anodonta angulata <i>Lea.</i> Lewis' river, Or.
99	xxiii	79	ii	99	Helix Californiensis <i>Lea.</i> St. Diego, U. Cal.
99	xxiii	80	ii	99	Townsendiana <i>Lea.</i> Wahlamat, Or.
100	xxiii	84	ii	100	Nickliniana <i>Lea.</i> St. Diego, U. Cal.
100	xxiii	85	ii	100	Oregonensis <i>Lea.</i> Wahlamat, Or.
101	xxiii	107	ii	101	Succinea aperta <i>Lea.</i> Bks. of Columbia r.
101	xxiii	109	ii	101	Paludina Nuttalliana <i>Lea.</i> Wahlamat, Or.
102	xxiii	94	ii	102	Lymnæa apicina <i>Lea.</i> Wahlamat, Or.
103	xxiv	113	ii	103	Unio dolabræformis <i>Lea.</i> Altamaha river.
104	xxiv	114	ii	104	Novi-eboraci <i>Lea.</i> Orleans co., N. Y.
105	xxiv	115	ii	105	Claibornensis <i>Lea.</i> Claiborne, Ala.
106	xxiv	117	ii	106	Anodonta subcylindræa <i>Lea.</i> Orleans co., N. Y.

TRANS. Vol. vi, 1839.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
107	xxiv	118	ii	107	Polygyra Dorfeuilliana <i>Lea</i>	Ohio.
107	xxiv	119	ii	107	Troostiana <i>Lea</i> .	Tennessee.

113 ii 113 **Lea.**—Synopsis of the family of Naiades.

[I do not give the American species of this Synopsis, as they are included, with one or two exceptions, in the second edition of the Synopsis, which is given on p. 230.—W. G. B.]

Vol. vii, 1841.

73 **Lea.**—Vol. vii of the same contains only "On the *Patella amœna* of Say." Date of title, 1841.

73 **Patelloidea testudinalis** Norway, Greenland,
P. amœna Couth. [*Lea*. &c.
Patella amœna Say.
testudinalis Müll. &c.
testudinaria Müll.
tessellata Müll.
testudinaria-Groenlandica Ch.
Clealandii Sowb.
virginea Müll. (Geml.?)
clypeus Ker. (MSS.)
Lottia Antillarum Sowb.

Vol. viii, 1843.

163 **Lea.**—Description of new Fresh Water and Land Shells. Date of title, 1843.

164	v	1	iii	2	Melania Hildrethiana <i>Lea</i> .	Ohio r. at Marietta.
164	v	2	iii	2	castanea <i>Lea</i> .	Maury co., Tenn.
165	v	3	iii	3	lævigata <i>Lea</i> .	Claiborne, Ala.
165	v	4	iii	3	Kirtlandiana <i>Lea</i> .	Ind., O., &c.
165	v	5	iii	3	Taitiana <i>Lea</i> .	Claiborne, Ala.
166	v	6	iii	4	dubiosa <i>Lea</i> .	Tennessee.
166	v	7	iii	4	ebenum <i>Lea</i> .	Robinson co., Tenn.
167	v	8	iii	5	rufa <i>Lea</i> .	Mamma's cr., Tenn.
167	v	9	iii	5	fusiformis <i>Lea</i> .	Tennessee.
168	v	10	iii	6	clavæformis <i>Lea</i> .	Ocoee Dist., Clinch
168	v	11	iii	6	gracilis <i>Lea</i> .	Tennessee. [r. Tenn.
168	v	12	iii	6	subsolida <i>Lea</i> .	Tennessee.
169	v	13	iii	7	Ocoeeensis <i>Lea</i> .	Ocoee Dist., Tenn.
169	v	14	iii	7	subcylindræa <i>Lea</i> .	Tennessee.
170	v	15	iii	8	sordida <i>Lca</i> .	Tennessee.

TRANS. Vol. viii, 1843.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
170	v	16	iii	8	Melania regularis Lea.	Oconee Dist., Tenn.
170	v	17	iii	8	fuliginosa Lea.	Maury co., Tenn.
171	v	18	iii	9	Nickliniana Lea.	Bath co., Va.
171			iii	10	Anculosa inflata Lea.	
					<i>Melania dilatata</i> Conrad.	
					<i>Rogersii</i> Conrad.	
					<i>Anculotus carinatus</i> Anth.	
					<i>Kirtlandianus</i> Anth.	
172	v	19	iii	10	Melania viridis Lea.	Cincinnati.
172	v	20	iii	10	occidentalis Lea.	Cincinnati.
173	v	21	iii	11	Niagarensis Lea.	Niagara Falls.
174	v	22	iii	12	globula Lea.	Tennessee.
174	v	23	iii	12	altilis Lea.	Santee ca., S.C., Hav. de Grace, Md.
175	v	24	iii	13	strigosa Lea.	Holston river, Tenn.
175	v	25	iii	13	virgata Lea.	Tenn.
176	v	26	iii	14	tenebrosa Lea.	Tenn.
176	v	27	iii	14	teres Lea.	Tenn.
176	v	28	iii	14	obtusa Lea.	Tenn.
177	v	29	iii	15	Lecontiana Lea.	Georgia.
177	v	30	iii	15	corrugata Lea.	Tennessee.
178	vi	31	iii	16	monozonalis Lea.	Tennessee.
178	vi	32	iii	16	terebralis Lea.	Tennessee.
179	vi	33	iii	17	columella Lea.	Tennessee.
179	vi	34	iii	17	blanda Lea.	Tennessee.
179	vi	35	iii	17	crebri-costata Lea.	Robinson co., Tenn.
180	vi	36	iii	18	Curreyana Lea.	Barren river, Ky.
180	vi	37	iii	18	Edgariana Lea.	Cany Fork, Tenn.
181	vi	38	iii	19	decora Lea.	Tenn., Green r. Ky.
181	vi	39	iii	19	costulata Lea.	Barren r. Ky., Tenn.
182	vi	40	iii	20	nitens Lea.	Tennessee.
182	vi	41	iii	20	plicatula Lea.	Tennessee.
183	vi	42	iii	21	concinna Lea.	Tennessee.
183	vi	43	iii	21	Babylonica Lea.	Yellow sps., Green
183	vi	44	iii	21	exarata Lea.	Tennessee. [co., O.
184	vi	45	iii	22	Potosiensis Lea.	Potosi, Mo.
184	vi	46	iii	22	acuto-carinata Lea.	Tennessee.
185	vi	47	iii	23	Warderiana Lea.	Cedar creek, Va.
185	vi	48	iii	23	sulcosa Lea.	Tennessee.
186	vi	49	iii	24	striata Lea.	Tennessee.
186	vi	50	iii	24	pilula Lea.	Tennessee.
187	vi	51	iii	25	circincta Lea.	Tennessee.
187	vi	52	iii	25	venusta Lea.	Tennessee.

TRANS. Vol. viii, 1843.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
188	vi	53	iii	26	<i>Melania Florentiana</i> Lea.	Florence, Ala.
188	vi	54	iii	26	<i>Duttoniana</i> Lea.	Tennessee.
189	vi	55	iii	27	<i>Holstonia</i> Lea.	Holston river, Tenn.
189	vi	56	iii	27	<i>caliginosa</i> Lea.	Tennessee.
190	vi	57	iii	28	<i>nodulosa</i> Lea.	Tennessee.
190	vi	58	iii	28	<i>Cincinnatiensis</i> Lea.	Cinn., Holston, Ten.
191	vii	1	iii	29	<i>Unio exiguus</i> Lea.	Columbus, Ga.
193	vii	3	iii	31	<i>cuneolus</i> Lea.	Holston river, Tenn.
194	viii	4	iii	32	<i>Cincinnatiensis</i> Lea.	Cincinnati.
195	viii	5	iii	33	<i>Stonensis</i> Lea.	Stone's river, Tenn.
195	viii	6	iii	33	<i>Lesueurianus</i> Lea.	Cany Fork and Holston river, Tenn.
196	ix	7	iii	34	<i>dactylus</i> Lea.	Cany Fork, Tenn.
197	ix	8	iii	35	<i>biangulatus</i> Lea.	Cany Fork, Tenn.
198	ix	9	iii	36	<i>strigosus</i> Lea.	Columbus, Ga.
198	x	10	iii	36	<i>tener</i> Lea.	Big Pigeon r., Tenn.
199	x	11	iii	37	<i>Tennesseensis</i> Lea.	Stone's river, Tenn.
200	x	12	iii	38	<i>amœnus</i> Lea.	Holston river, Tenn.
201	xi	13	iii	39	<i>obtusus</i> Lea.	Columbus, Ga.
201	xi	14	iii	39	<i>fatuus</i> Lea.	Holston river, Tenn.
202	xi	15	iii	40	<i>Geddingsianus</i> Lea.	Congaree riv., S. C.
203	xii	16	iii	41	<i>striatus</i> Lea.	Columbus, Ga.
204	xii	17	iii	42	<i>tortivus</i> Lea.	Columbus, Ga.
204	xii	18	iii	42	<i>lenior</i> Lea.	Holston river, Tenn.
205	xii	19	iii	43	<i>nitens</i> Lea.	Coeke co., Tenn.
206	xii	20	iii	44	<i>lineatus</i> Lea.	Columbus, Ga.
207	xiii	21	iii	45	<i>atromarginatus</i> Lea.	Columbus, Ga.
208	xiii	22	iii	46	<i>Boykinianus</i> Lea.	Columbus, Ga.
209	xiii	23	iii	47	<i>subangulatus</i> Lea.	Columbus, Ga.
209	xiv	24	iii	47	<i>pilaris</i> Lea.	French Broad and Holston r., E. Ten.
210	xiv	25	iii	48	<i>tuberosus</i> Lea.	Cany Fork and Cumberland rvs., M. Ten.
211	xiv	26	iii	49	<i>plenus</i> Lea.	Cincinnati.
212	xv	27	iii	50	<i>Holstonensis</i> Lea.	Holston river, Tenn.
213	xv	28	iii	51	<i>Bowenianus</i> Lea.	Chillicothe, O.
213	xv	29	iii	51	<i>paulus</i> Lea.	Columbus, Ga.
214	xv	30	iii	52	<i>Edgarianus</i> Lea.	Holston river, Tenn., Florence, Ala.
215	xv	31	iii	53	<i>dolabelloides</i> Lea.	Holston river, Tenn.
216	xvi	32	iii	54	<i>Boydianus</i> Lea.	Orleans co., N. Y.
217	xvi	33	iii	55	<i>Sloatianus</i> Lea.	Chattahoochee r., G.

TRANS. Vol. viii, 1843.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
217	xvi	34	iii	55	<i>Unio incrassatus</i> Lea.	Columbus, Ga.
220	xviii	36	iii	58	<i>pusillus</i> Lea. [Lea.	Ogeechee river, Ga.
223	xviii	40	iii	61	<i>Margaritana Curreyiana</i>	Stone's river, Tenn.
223	xix	41	iii	61	<i>Anodonta argentea</i> Lea.	Stone's river, Tenn.
224	xix	42	iii	62	<i>Harpethensis</i> Lea.	Harpeth's riv., Ten.
225	xix	43	iii	63	<i>ferruginea</i> Lea.	Simon's creek, Ind.
225	xx	44	iii	63	<i>Footiana</i> Lea.	Fort Winnebago.
226	xx	45	iii	64	<i>Marryattana</i> Lea.	Fort Winnebago.
227	xx	46	iii	65	<i>Couperiana</i> Lea.	Hopeton, Ga.
227					<i>incerta</i> ?	Hopeton, Ga.
228	vi	59	iii	66	<i>Melania Boykiniana</i> Lea.	Columbus, Ga.
228	vi	60	iii	66	<i>catenoides</i> Lea.	Columbus, Ga.
229	vi	61	iii	67	<i>Carocolla Cumberlandiana</i>	Cumberland Mts.,
					Lea.	Jasper, Tenn.
229	vi	62	iii	67	<i>Cyclostoma Cincinnatiense</i> Lea.	Cincinnati.
230-233			iii	68	Notes on Anatomy of <i>Naiades</i> .	
233	xxi	47	iii	71	<i>Unio Sapotalensis</i> Lea.	Sapotal river, Mex.
234	xxi	48	iii	72	<i>Tecomatensis</i> Lea.	Tecomate riv., Mex.
235	xxi	49	iii	73	<i>Georgianus</i> Lea.	Stump creek, Ga.
236	xxii	50	iii	74	<i>Duttonianus</i> Lea.	Ogeechee canal, Ga.
237	xxii	51	iii	75	<i>Bigbyensis</i> Lea.	Big Bigbee cr., Ten.
238	xxii	52	iii	76	<i>crocatus</i> Lea.	Savannah river, Ga.
239	xxiii	54	iii	77	<i>callosus</i> Lea.	Ohio canal, 12 miles below Columbus.
241	xxiv	56	iii	79	<i>Anodonta globosa</i> Lea.	Concha Lake, Tlaca- talam, Mexico.
242	xxv	57	iii	80	<i>Unio argenteus</i> Lea.	Holston river, Tenn.
242	xxv	58	iii	80	<i>sparsus</i> Lea.	Holston river, Tenn.
243	xxv	59	iii	81	<i>regularis</i> Lea.	French Br'd r., Ten.
244	xxvi	60	iii	82	<i>mæstus</i> Lea.	French Br'd r., Ten.
245	xxvi	62	iii	83	<i>Brumbyanus</i> Lea.	Tuscaloosa, Ala.
246	xxvi	61	iii	84	<i>Dariensis</i> Lea.	Darien, Ga.
247	xxvii	63	iii	85	<i>Haleianus</i> Lea.	Miss. river, 30 miles above N. Orleans.
247	xxvii	64	iii	85	<i>Foremanianus</i> Lea.	Tuscaloosa, Ala.
248	xxvii	65	iii	86	<i>Anodonta Dunlapiana</i> Lea.	South Carolina.
					(Corrigenda.)	
					<i>Melania lavigata</i> Lea = <i>lævis</i> Lea.	
					<i>rufa</i> Lea = <i>rufescens</i> Lea.	
					<i>corrugata</i> Lea = <i>rugosa</i> Lea.	
					<i>striata</i> Lea = <i>striatula</i> Lea.	

TRANS.
Vol. ix, 1844.

OBS.

V. Pa.

V. Pa.

Name.

Locality.

Lea.—Continuation of Mr. LEA's paper on Fresh Water and Land Shells. Date of title of vol. ix, part 1, 1844.

ix	1	iv	1	Helix Tennesseensis Lea.	Cumb'land Mt., Tenn.
ix	2	iv	2	Carocolla Edgariana Lea.	Cumb'land Mt., Tenn.
ix	3	iv	3	Succinea Wardiana Lea.	Ohio.
ix	4	iv	4	Totteniana Lea.	Newport, R. I.
ix	4	iv	4	Nuttalliana Lea.	Oregon.
ix	4	iv	4	aurea Lea.	Springfield, O.
ix	5	iv	5	Oregonensis Lea.	Oregon.
ix	5	iv	5	inflata Lea.	South Carolina.
ix	6	iv	6	Planorbis regularis Lea.	United States.
ix	6	iv	6	Buchanensis Lea.	Cincinnati.
ix	6	iv	6	bellus Lea.	Tennessee.
ix	6	iv	6	lens Lea = lenticularis Lea.	
ix	7	iv	7	Physa Hildrethiana Lea.	Illinois.
ix	7	iv	7	inflata Lea.	Virginia.
ix	7	iv	7	Troostiana Lea.	Tennessee.
ix	8	iv	8	Limnæa Philadelphica Lea.	Schuylkill river.
ix	8	iv	8	Griffithiana Lea.	Charlotte Lake, N. Y.
ix	9	iv	9	Nuttalliana Lea.	Oregon.
ix	9	iv	9	bulimoides Lea.	Oregon.
ix	9	iv	9	exigua Lea.	Tennessee.
ix	9	iv	9	planulata Lea.	White Sulph. Spr., Va.
ix	10	iv	10	fusiformis Lea.	Lewistown, N. Y.
ix	10	iv	10	rustica Lea.	Poland, O.
ix	10	iv	10	plica Lea.	Tennessee.
ix	11	iv	11	coarctata Lea.	Newport, R. I.
ix	11	iv	11	casta Lea.	Poland, O.
ix	11	iv	11	parva Lea.	Cincinnati.
ix	11	iv	11	curta Lea.	Cincinnati.
ix	12	iv	12	strigosa Lea.	Cincinnati.
ix	12	iv	12	Kirtlandiana Lea.	Poland, O.
ix	13	iv	13	Paludina regularis Lea.	Ohio.?
ix	13	iv	13	obtusa Lea.	Ohio.
ix	14	iv	14	Troostiana Lea.	Tennessee.
ix	14	iv	14	Anculosa (notes on the genus.)	
ix	15	iv	15	Troostiana Lea.	Tennessee.
ix	15	iv	15	gibbosa Lea.	Tennessee.
ix	15	iv	15	carinata Lea.	Roanoke river.
ix	15	iv	15	variabilis Lea.	Roanoke river.
ix	16	iv	16	Ammicola (notes on the genus.)	

TRANS. Vol. ix, 1844.		OBS.		Name.	Locality.
V.	Pa.	V.	Pa.		
ix	16	iv	16	<i>Amnicola orbiculata</i> Lea.	Springfield, O., and Cayuga Lake.
ix	16	iv	16	<i>limosa</i> Say.	
ix	16	iv	16	<i>porata</i> Say.	
ix	16	iv	16	<i>isogona</i> Say.	
				<i>Paludina pallida</i> Lea.	
ix	16	iv	16	<i>parva</i> Lea.	Springfield, O.
ix	17	iv	17	<i>Io tenebrosa</i> Lea.	Tennessee.
ix	17	iv	17	<i>Helix Mobiliana</i> Lea.	Mobile.
ix	17	iv	17	<i>minutissima</i> Lea.	Cincinnati.
ix	18	iv	18	<i>Melania turgida</i> Lea.	Holston river, Tenn.
ix	18	iv	18	<i>glabra</i> Lea.	Holston river, Tenn.
ix	18	iv	18	<i>perfusca</i> Lea.	Calf Killer cr., Tenn.
ix	19	iv	19	<i>picta</i> Lea.	Holston river, Tenn.
ix	19	iv	19	<i>impressa</i> Lea.	Coosa river, Ala.
ix	19	iv	19	<i>robusta</i> Lea.	Coosa river, Ala.
ix	20	iv	20	<i>Jayana</i> Lea.	Cany Fork, De Kalb co.,
ix	20	iv	20	<i>Anculosa rubiginosa</i> Lea.	Warrior r., Ala. [Tenn.]
ix	20	iv	20	<i>Griffithiana</i> Lea.	Coosa river, Ala.
ix	21	iv	21	<i>tuberculata</i> Lea.	Black Warrior r., Ala.
ix	21	iv	21	<i>Valvata bicarinata</i> Lea (with notes on animal and ova).	Schuylkill river.
ix	22	iv	22	<i>Paludina angulata</i> Lea.	Coosa river, Ala.
ix	23	iv	23	<i>Coosaensis</i> Lea. [Lea.]	Coosa river, Ala.
ix	23	iv	23	<i>cyclostomatiformis</i>	Coosa river, Ala.
ix	24	iv	24	Notes on genus <i>Melania</i> .	
ix	24	iv	24	<i>Melania plicatula</i> Lea = <i>M. Deshayesiana</i> Lea.	
ix	24	iv	24	<i>plicata</i> Lea = <i>M. Menkeana</i> Lea.	
ix	24	iv	24	<i>exarata</i> Lea = <i>M. arata</i> Lea.	
ix	24	iv	24	<i>Planorbis lens</i> Lea = <i>Pl. Brogniartiana</i> Lea.	
ix	25	iv	25	<i>Melania vanuxemiana</i> Lea.	Alabama.
ix	25	iv	25	<i>ovalis</i> Lea.	Alabama.
ix	25	iv	25	<i>Haysiana</i> Lea. [ma].	Alabama.
ix	25	iv	25	<i>excisa</i> Lea (<i>Schizosto-</i>	Alabama.
ix	26	iv	26	<i>Schizostoma</i> Lea (n. g.)	
ix	26	iv	26	<i>Melania Ordiana</i> Lea.	Alabama.
ix	26	iv	26	<i>brevis</i> Lea.	Alabama.
ix	27	iv	27	<i>oliva</i> Lea.	Alabama.
ix	27	iv	27	<i>Foremani</i> Lea.	Alabama.
ix	27	iv	27	<i>torquata</i> Lea.	Tennessee.
ix	28	iv	28	<i>producta</i> Lea.	Tennessee.
ix	28	iv	28	<i>curvata</i> Lea.	Tennessee.
ix	28	iv	28	<i>expansa</i> Lea.	Alabama.

TRANS.			OBS.		Name.	Locality.
Vol. ix, 1844.			V.	Pa.		
Pa.	Pl.	Fig.				
28	ix	28	iv	28	Anculosa incisa <i>Lea.</i>	Alabama.
29	ix	29	iv	29	Foremani <i>Lea.</i>	Alabama.
29	ix	29	iv	29	solida <i>Lea.</i>	Alabama.
30	ix	30	iv	30	flammata <i>Lea.</i>	Alabama.
30	ix	30	iv	30	Paludina incrassata <i>Lea.</i>	Alabama.
30	ix	30	iv	30	coarctata <i>Lea.</i>	Alabama.

Vol. ix, pt. 3, 1846.

Lea.—Description of new Fresh Water and Land Shells. Date of part 3, 1846.

275	xxxix	1	iv	34	Unio amygdalum <i>Lea.</i>	Lake George, Fla.
275	xxxix	2	iv	34	Buckleyi <i>Lea.</i>	Lakes George and Munroe, Fla.
276	xxxix	3	iv	34	minor <i>Lea.</i>	Lakes George and Munroe, Fla.
277	xl	4	iv	35	fuscatus <i>Lea.</i>	Black creek, Fla.
277	xl	5	iv	35	Buddianus <i>Lea.</i>	L. George & Munroe,
278	xl	6	iv	36	trossulus <i>Lea.</i>	Lke. Munroe, Fla. [F.
279	xli	7	iv	37	occultus <i>Lea.</i>	Black cr. and Lake Munroe, Fla.
279	xli	8	iv	37	Monroensis <i>Lea.</i>	Lake Munroe, Fla.
280	xli	9	iv	38	aheneus <i>Lea.</i>	Black creek, Fla.
280	xlii	10	iv	38	neglectus <i>Lea.</i>	North Alabama.

Vol. x, pt. 1, 1847.

67

Lea.—Description of new Fresh Water and Land Shells. Date of vol. x, part 1, 1847.

67	i	1	iv	41	Unio hippopæus <i>Lea.</i>	Lake Erie.
68	i	2	iv	42	latecostatus <i>Lea.</i>	Tuscaloosa, Ala.
69	i	3	iv	43	utriculus <i>Lea.</i>	N. C.
69	ii	4	iv	43	hyalinus <i>Lea.</i>	Richmond, Va.
70	ii	5	iv	44	atrocostatus <i>Lea.</i>	Ala., La.
70	ii	6	iv	44	pellucidus <i>Lea.</i>	Chattahoochee, Ga.
71	iii	7	iv	45	tumescens <i>Lea.</i>	Alexandria, La.
71	iii	8	iv	45	pernodosus <i>Lea.</i>	N. C.
72	iii	9	iv	46	flavescens <i>Lea.</i>	Blk. Warrior r., Ala.
73	iv	10	iv	47	fulgidus <i>Lea.</i>	Alexandria, La.
73	iv	11	iv	47	symmetricus <i>Lea.</i>	Alexandria, La.
74	iv	12	iv	48	unicolor <i>Lea.</i>	Tuscaloosa, Ala.
74	v	13	iv	48	approximus <i>Lea.</i>	Alexandria, La.
75	v	14	iv	49	caperatus <i>Lea.</i>	Clinch river, Tenn.
76	v	15	iv	50	simplex <i>Lea.</i>	Blk. Warrior r., Ala.
76	vi	16	iv	50	Gouldii <i>Lea.</i>	Tuscaloosa, Ala.

TRANS.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
77	vi	17	iv	51	<i>Unio Estabrookianus</i> Lea.	Clinch river, Tenn.
77	vi	18	iv	51	<i>Binneyi</i> Lea.	Southern States.
78	vii	19	iv	52	<i>fuliginosus</i> Lea.	Cobb's creek, Phila.
79	vii	20	iv	53	<i>pallescens</i> Lea.	Tuscaloosa, Ala.
79	vii	21	iv	53	<i>caliginosus</i> Lea.	Alexandria, La.
80	viii	22	iv	54	<i>spatulatus</i> Lea.	Rock river, Wisc.
81	viii	23	iv	55	<i>compressissimus</i> Lea.	Holston river, Tenn.
81	viii	24	iv	55	<i>pulvinulus</i> Lea.	Murray co., Ala.
82	viii	25	iv	56	<i>Anodonta tetragona</i> Lea.	Alexandria, La.
82	viii	26	iv	56	<i>Margaritana minor</i> Lea.	Tenn., N. C.
83	ix	27	iv	57	<i>Melania solida</i> Lea.	Tennessee.
83	ix	28	iv	57	<i>proteus</i> Lea.	Tuscaloosa, Ala.
84	ix	29	iv	58	<i>lugubris</i> Lea.	Alabama.
84	ix	30	iv	58	<i>torta</i> Lea.	Big creek, Tenn.
85	ix	31	iv	59	<i>spurca</i> Lea.	Alabama.
85	ix	32	iv	59	<i>abrupta</i> Lea.	Alabama.
85	ix	33	iv	59	<i>basalis</i> Lea.	Alabama.
86	ix	34	iv	60	<i>modesta</i> Lea.	Columbus, Ga.
86	ix	35	iv	60	<i>Haleiana</i> Lea.	Alexandria, La.
86	ix	36	iv	60	<i>pumila</i> Lea.	Tuscaloosa, Ala.
87	ix	37	iv	61	<i>Alexandrensis</i> Lea.	Alexandria, La.
87	ix	38	iv	61	<i>ovoidea</i> Lea.	Alexandria, La.
88	ix	39	iv	62	<i>auriculæformis</i> Lea.	Tuscaloosa, Ala.
88	ix	40	iv	62	<i>carino-costata</i> Lea.	Ala., Tenn.
88	ix	41	iv	62	<i>filum</i> Lea.	Alabama.
89	ix	42	iv	63	<i>spinalis</i> Lea.	Alabama.
89	ix	43	iv	63	<i>pallescens</i> Lea.	Chester Dist., S. C.
90	ix	44	iv	64	<i>Buddii</i> Lea.	Tennessee?
90	ix	45	iv	64	<i>harpa</i> Lea.	Tuscaloosa, Ala.
90	ix	46	iv	64	<i>arctata</i> Lea.	Tuscaloosa, Ala.
91	ix	47	iv	65	<i>crebri-striata</i> Lea.	Tuscaloosa, Ala.
91	ix	48	iv	65	<i>nobilis</i> Lea.	Alabama.
92	ix	49	iv	66	<i>pernodosa</i> Lea.	Florence, Ala.
92	ix	50	iv	66	<i>Anculosa squalida</i> Lea.	Tuscaloosa, Ala.
93	ix	51	iv	67	<i>tintinnabulum</i> Lea.	Tenn., Tuscal'a, Ala.
93	ix		iv	67	<i>Schizostoma</i> Lea (n. g.)	
93	ix	52	iv	67	<i>pagoda</i> Lea.	Tuscaloosa, Ala.
93	ix		iv	67	<i>incisa</i> Lea.	
93	ix		iv	67	<i>excisa</i> Lea.	
94	ix	53	iv	68	<i>Buddii</i> Lea.	Tuscaloosa, Ala.
94	ix	54	iv	68	<i>Babylonicum</i> Lea.	Tuscaloosa, Ala.
94	ix	55	iv	68	<i>constrictum</i> Lea.	Tuscaloosa, Ala.
95	ix	56	iv	69	<i>funiculatum</i> Lea.	Tuscaloosa, Ala.

TRANS. Vol. x, 1847.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
95	ix	57	iv	69	Schizostoma laciniatum	Tuscaloosa, Ala.
					<i>Lea.</i>	
96	ix	58	iv	70	Paludina Haleiana	Alexandria, La.
					<i>Lea.</i>	
96	ix		iv	70	Lea. —Catalogue of Recent and Fossil Melania.	

[As no synonymus, references or localities are given by Mr. Lea, I have not considered it necessary to repeat this list.—W. G. B.]

Vol. x, pt. 2, 1852.

253			v	10	Lea. —New Fresh Water and Land Shells.	Date of vol. x, part 2, 1852.
254	xii	1	v	10	Unio sordidus	<i>Lea.</i> Abbeville Dis., S. C.
254	xii	2	v	10	Gibbesianus	<i>Lea.</i> Abbeville Dis., S. C.
255	xii	3	v	11	perstriatus	<i>Lea.</i> Abbeville Dis., S. C.
256	xiii	4	v	12	Toumeyia	<i>Lea.</i> Abbeville Dis., S. C.
256	xiii	5	v	12	Barrattii	<i>Lea.</i> Abbeville Dis., S. C.
257	xiii	6	v	13	decoratus	<i>Lea.</i> Abbeville Dis., S. C.
258	xiv	7	v	14	rufusculus	<i>Lea.</i> Abbeville Dis., S. C.
258	xiv	8	v	14	Whiteianus	<i>Lea.</i> Savannah, Ga.
259	xiv	9	v	15	lazarus	<i>Lea.</i> Abbeville Dis., S. C.
260	xv	10	v	16	merus	<i>Lea.</i> Abbeville Dis., S. C.
260	xv	11	v	16	concavus	<i>Lea.</i> Abbeville Dis., S. C.
261	xv	12	v	17	ineptus	<i>Lea.</i> Abbeville Dis., S. C.
261	xv	13	v	17	buxeus	<i>Lea.</i> Abbeville Dis., S. C.
262	xv	14	v	18	pygmæus	<i>Lea.</i> Abbeville Dis., S. C.
263	xvi	15	v	19	fraternus	<i>Lea.</i> Abbeville Dis., S. C., and Columbus, Ga.
263	xvi	16	v	19	Cuvierianus	<i>Lea.</i> Washington co., Ga.
264	xvi	17	v	20	Forbesianus	<i>Lea.</i> Savannah river.
265	xvii	18	v	21	Kleinianus	<i>Lea.</i> Suwanee river, Fla.
265	xvii	19	v	21	satur	<i>Lea.</i> Alexandria, La., Lk. Calcashue, La.
266	xvii	20	v	22	Lamarkianus	<i>Lea.</i> Caddo and Washitta rivers, Ark.
267	xviii	21	v	23	hebes	<i>Lea.</i> Oconee river, Ga.
268	xviii	22	v	24	Moussonianus	<i>Lea.</i> Georgia.
268	xviii	23	v	24	nigerrimus	<i>Lea.</i> Alexandria, La.
269	xix	24	v	25	Prevostianus	<i>Lea.</i> Eutowah river, Ga.
270	xix	25	v	26	Powellii	<i>Lea.</i> Saline river, Ark.
271	xix	26	v	27	affinis	<i>Lea.</i> Alexandria, La.
271	xx	27	v	27	proximus	<i>Lea.</i> Georgia.
272	xx	28	v	28	Reevicianus	<i>Lea.</i> Alexandria, La.

TRANS. Vol. x, 1853.			Obs.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
273	xx	29	v	29	Unio luridus <i>Lea.</i>	Coosawattee r., Ga.
273	xxi	30	v	29	Clarkianus <i>Lea.</i>	Williamsport, Tenn., Ala. ? Ga. ?
274	xxi	31	v	30	Floridensis <i>Lea.</i>	Chacktahachi r., Fla.
275	xxi	32	v	31	succissus <i>Lea.</i>	W. Florida, New Or.
275	xxii	33	v	31	Oregonensis <i>Lea.</i>	Columbia river.
275	xxii	34	v	32	Rumphianus <i>Lea.</i>	West Georgia ?
277	xxii	35	v	33	sagittiformis <i>Lea.</i>	Oconee river, Ga.
278	xxiii	36	v	34	Stewardsonii <i>Lea.</i>	Chattanooga r., Ten.
279	xxiii	37	v	35	Hanleyianus <i>Lea.</i>	Coosawattee r., Ga.
279	xxiii	38	v	35	placitus <i>Lea.</i>	Alabama.
280	xxiii	39	v	36	Troschelianus <i>Lea.</i>	Coosawattee r., Ga.
281	xxiii	40	v	37	Kienerianus <i>Lea.</i>	Coosawattee r., Ga.
283	xxiv	42	v	39	nigellus <i>Lea.</i>	Chattahoochee r., G.
283	xxiv	43	v	39	nux <i>Lea.</i>	Alabama.
284	xxiv	44	v	40	nigrinus <i>Lea.</i>	West Florida.
285	xxv	45	v	41	Anodonta denigrata <i>Lea.</i>	East Tennessee.
285	xxv	46	v	41	opaca <i>Lea.</i>	New Orleans, Little Rock, Ark.,
286	xxv	47	v	42	Californiensis <i>Lea.</i>	Rio Colorado, Cal.
288	xxvi	50	v	44	Schaefferiana <i>Lea.</i>	Horn Lake cr., Tenn.
289	xxvii	51	v	45	Linnæana <i>Lea.</i>	Lake Concordia, La.
289				45	edentula <i>Say ?</i>	Cincinnati.
290	xxviii	52	v	46	oblita <i>Lea.</i>	Campbell co., Tenn.
290	xxviii	53	v	46	virens <i>Lea.</i>	Alexandria, La.
293	xxix	56	v	49	Arkansensis <i>Lea.</i>	Little Arkansas riv.
295			v	51	Lea. —Description of a new genus (Basistoma) of the family Melaniana.	
295			v	51	Schizostoma <i>Lea</i> (preoc.) = Schizochilus <i>Lea.</i>	
296	xxx	2	v	52	Melania perstriata <i>Lea.</i>	Coosa r., Ala., Hunts- ville, Tenn.
297	xxx	3	v	53	sculptilis <i>Lea.</i>	Tennessee.
297	xxx	4	v	53	Clarkii <i>Lea.</i>	Duck creek, Tenn.
298	xxx	5	v	54	Brumbyi <i>Lea.</i>	Coosa r., Huntsville,
298	xxx	6	v	54	oblita <i>Lea.</i>	Tennessee ? [Ala.
299	xxx	7	v	55	furva <i>Lea.</i>	Coosa river, Ala.
299	xxx	8	v	55	Sellersiana <i>Lea.</i>	Cany Fork, Tenn.
300	xxx	9	v	56	oppugnata <i>Lea.</i>	Alabama river.
300	xxx	10	v	56	Saffordii <i>Lea.</i>	Lebanon, Tenn.
301	xxx	11	v	57	pinguis <i>Lea.</i>	Lebanon, Tenn.
301	xxx	12	v	57	gibbosa <i>Lea.</i>	Scioto river, O.

TRANS. Vol. x, 1853.			Obs.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
303			v	59	Lea. —Description of a new species of <i>Helix</i> from California, and a new characteristic form of certain American <i>Colimacea</i> .	
303	xxx	13	v	59	Helix Leontii <i>Lea.</i>	San Francisco.
304					Accessory column in	
304			v	60	Carocolla spinosa <i>Lea.</i>	
304			v	60	Edgariana <i>Lea.</i>	
304			v	60	Helix hirsuta <i>Say.</i>	
304			v	60	monodon <i>Rack.</i>	
304			v	60	Leai <i>Ward.</i>	
304			v	60	leporina <i>Gould.</i>	
304			v	60	Leontii <i>Lea.</i>	
304			v	60	Polygyra Troostiana <i>Lea.</i>	
304			v	60	Dorfeuilliana <i>Lea.</i>	

JOUR. ACAD. N. SC.
Vol. iii, Jan. 1858.

289			vi	9	Lea. —Descriptions of Exotic Genera and species of the family Unionidæ. (From Journal Acad. Nat. Sc. Philadelphia, (n. s.), vol. iii, pt. 4. Jan. 1858.) New Fresh Water and Land Shells. Observations on the genus <i>Unio</i> , vol. vi, pt. 1, 1857.	
311	xxx	26	vi	31	Unio umbrosus <i>Lea.</i>	Medellin riv., Mex.
314	xxxi	29	vi	34	Coloradoensis <i>Lea.</i>	Rio Colorado, Texas.
315	xxxii	30	vi	35	Poeyanus <i>Lea.</i>	R. de las Balsas, Coyucan, Mexico.

Vol. iv, Dec. 1858.

43			vi	43	Lea. —Descriptions of the Embryonic forms of thirty-eight species of Unionidæ, vol. iv, pt. 1. Dec. 1858. (Obs. vol. vi, pt. 2.)	
46	v	1	vi	46	Unio obtusus <i>Lea.</i>	
46	v	2	vi	46	anodontoides <i>Lea.</i>	
46	v	3	vi	46	multiplicatus <i>Lea.</i>	
46	v	4	vi	46	rutilans <i>Lea.</i>	
47	v	5	vi	47	penicillatus <i>Lea.</i>	
47	v	6	vi	47	securis <i>Lea.</i>	
47	v	7	vi	47	retusus <i>Lea.</i>	
47	v	8	vi	47	Pratii <i>Lea.</i>	
47	v	9	vi	47	spatulatus <i>Lea.</i>	
47	v	10	vi	47	luteolus <i>Lam.</i>	

JOURN. A. N. SC. Vol. IV, 1858.			Obs.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
47	v	11	vi	47	Unio rectus <i>Lam.</i>	
47	v	12	vi	47	phaseolus <i>Hldr.</i>	
47	v	13	vi	47	occidens <i>Lea.</i>	
47	v	14	vi	47	Novi-Eboraci <i>Lea.</i>	
47	v	15	vi	47	ovatus <i>Say.</i>	
47	v	16	vi	47	Woodwardianus <i>Lea.</i>	
47	v	17	vi	47	multiradiatus <i>Lea.</i>	
48	v	18	vi	47	ligamentinus <i>Lam.</i>	
48	v	19	vi	48	triangularis <i>Barnes.</i>	
48	v	20	vi	48	radiatus <i>Lam.</i>	
48	v	21	vi	48	perplexus <i>Lea.</i>	
48	v	22	vi	48	undulatus <i>Barnes.</i>	
48	v	23	vi	48	pressus <i>Lea.</i>	
48	v	24	vi	48	lævissimus <i>Lea.</i>	
48	v	25	vi	48	alatus <i>Say.</i>	
48	v	26	vi	48	Margaritana rugosa <i>Lea.</i>	
49	v	27	vi	49	marginata <i>Lea.</i>	
49	v	28	vi	49	triangulata <i>Lea.</i>	
49	v	29	vi	49	complanata <i>Lea.</i>	
49	v	30	vi	49	deltoidea <i>Lea.</i>	
49	v	31	vi	49	Hildrethiana <i>Lea.</i>	
49	v	32	vi	49	Anodonta Lewisii <i>Lea.</i>	
49	v	33	vi	49	ovata <i>Lea.</i>	
49	v	34	vi	49	decora <i>Lea.</i>	
50	v	35	vi	50	Ferussaciana <i>Lea.</i>	
50	v	36	vi	50	imbecilis <i>Say.</i>	
50	v	37	vi	50	edentula <i>Lea.</i>	
50	v	38	vi	50	undulata <i>Say.</i>	
50	v	39	vi	50	Unio subangulatus <i>Lea.</i>	

[The localities of the specimens from which the dissections are made are given also.—W. G. B.]

51		vi	51	Lea. —New Unionidae of the United States.	
51	vi	34	vi	51	Unio Abbevillensis <i>Lea.</i> Abbeville Dis., S. C.
52	vi	35	vi	52	Jamesianus <i>Lea.</i> Jackson, Miss.
53	vi	36	vi	53	subgibbosus <i>Lea.</i> Oostanaula and Etowa rivers, Ga.
54	vii	37	vi	54	Elliottii <i>Lea.</i> Othcalooga cr., Ga.
55	viii	38	vi	56	gracilior <i>Lea.</i> Buckhead creek, To- besaufke cr., Ga.
57	viii	39	vi	57	pullatus <i>Lea.</i> Columbus, Ga.
58	viii	40	vi	58	favosus <i>Lea.</i> Othcalooga cr., Ga.

JOURN. A. N. Sc. Vol. iv, 1858.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
59	ix	41	vi	59	Unio rutilans <i>Lea.</i>	Othcalooga cr. Ga., and Columbus.
60	ix	42	vi	60	errans <i>Lea.</i>	Tobesaufke cr., Ga.
61	ix	43	vi	61	vicinus <i>Lea.</i>	Swift creek, Ga.
62	x	44	vi	62	subellipsis <i>Lea.</i>	Columbus, Ga.
63	x	45	vi	63	geminus <i>Lea.</i>	Buckhead creek, Ga.
64	x	46	vi	64	rostriformis <i>Lea.</i>	Swift creek, Ga.
65	xi	47	vi	65	Blandianus <i>Lea.</i>	Othcalooga cr., Ga.
66	xii	48	vi	66	concestator <i>Lea.</i>	Columbus, Ga.
67	xii	49	vi	67	extensus <i>Lea.</i>	Dry creek, Ga.
69	xii	50	vi	69	pyriformis <i>Lea.</i>	Columbus, Ga.
70	xiii	51	vi	70	rubellinus <i>Lea.</i>	Othcalooga cr. Ga., and Ala. [and Ala.
71	xiii	52	vi	71	excavatus <i>Lea.</i>	Othcalooga cr. Ga.,
72	xiii	53	vi	72	umbrans <i>Lea.</i>	Othcalooga cr. Ga.
74	xiv	54	vi	74	Othcaloogensis <i>Lea.</i>	Othcalooga cr. Ga., and Ala.
75	xiv	55	vi	75	Columbensis <i>Lea.</i>	Columbus, Ga.
76	xiv	56	vi	76	apicinus <i>Lea.</i>	Othcalooga cr., Ga.
77	xv	57	vi	77	intercedens <i>Lea.</i>	Columbus, Ga.
78	xv	58	vi	78	pinguis <i>Lea.</i>	St. Peter's r., U. Miss.
79	xv	59	vi	79	fallax <i>Lea.</i>	Columbus, Ga., Fr. Broad riv., Tenn.
80	xvi	60	vi	80	virens <i>Lea.</i>	Georgia.
81	xvi	61	vi	81	Savannahensis <i>Lea.</i>	Ga., Santee can. S. C., Sugar creek, N. C.,
82	xvi	62	vi	82	sublatus <i>Lea.</i>	Uchee Bar, Ga.
83	xvii	63	vi	83	tenebricus <i>Lea.</i>	Etowah river, Ga.
84	xvii	64	vi	84	obnubilus <i>Lea.</i>	Buckhead cr., Ga.
85	xvii	65	vi	85	rufus <i>Lea.</i>	Etowah river, Ga.
86	xviii	66	vi	86	opacus <i>Lea.</i>	Buckhead cr., Ga.
87	xviii	67	vi	87	viridicatus <i>Lea.</i>	Buckhead cr., Ga.
88	xviii	68	vi	88	fumatus <i>Lea.</i>	Columbus, Ga., Hos- paliga cr., Ala.
89	xix	69	vi	89	æquatus <i>Lea.</i>	Buckhead cr., Ga.
90	xix	70	vi	90	subflavus <i>Lea.</i>	Walnut creek, Ga.
91	xix	71	vi	91	similis <i>Lea.</i>	Buckhead cr., Ga.
92	xx	72	vi	92	aquilus <i>Lea.</i>	Flint and Chatta- hoochee rivs., Ga.
93	xx	73	vi	93	Maconensis <i>Lea.</i>	Flint river, Ga.
94	xx	74	vi	94	naviculoides <i>Lea.</i>	Buckhead cr. and Macon, Ga.

Journ. A. N. Sc. Vol. iv, 1859.			Obs.	Name.	Locality.
Pa.	Pl.	Fig.	V. Pa.		
Sept. 1859.					
191			vii 9	Lea. —The same continued. (Journ. A. N. Sc. Philada., vol. iv, pt. 2. Sept. 1859. Obs. vol. vii, pt. 1.)	
191	xxi	75	vii 9	Unio bulbosus <i>Lea.</i>	Flint river, Ga.
192	xxi	76	vii 10	Plantii <i>Lea.</i>	Flint river, Ga.
194	xxi	77	vii 12	sudus <i>Lea.</i>	Columbus & Macon,
195	xxii	78	vii 13	tetricus <i>Lea.</i>	Flint river, Ga. [Ga.
196	xxii	79	vii 14	subniger <i>Lea.</i>	Flint river, Ga.
197	xxii	80	vii 15	obfuscus <i>Lea.</i>	Flint river, Ga.
198	xxiii	81	vii 16	purpurellus <i>Lea.</i>	Flint river, Ga.
199	{ xxiii xxix }	{ 82 103 }	vii 17	Woodwardianus <i>Lea.</i>	Cass co., Ga.
200	xxiii	83	vii 18	denigratus <i>Lea.</i>	Columbus, Ga.
201	xxiii	84	vii 19	radians <i>Lea.</i>	Othcalooga cr., Ga.
203	xxiii	85	vii 21	penicillatus <i>Lea.</i>	Chattahoochee and Flint rivers.
204	xxiv	86	vii 22	modicus <i>Lea.</i>	Chattahoochee r. Ga.
205	xxiv	87	vii 23	Boswellensis <i>Lea.</i>	Chattahoochee r. Ga.
206	xxiv 88 88 ^a		vii 24	Prattii <i>Lea.</i>	Chattahoochee r. Ga.
208	xxv	89	vii 26	spissus <i>Lea.</i>	Satilla river, Ga.
209	xxv	90	vii 27	Chattanoogaensis <i>Lea.</i>	Chattanooga, Ten., Etowah, Coosawat- te, Oostenanla riv.
210	xxv	91	vii 28	Downiei <i>Lea.</i>	Buck Lake, Ga.
211	xxvi	92	vii 29	Hazlehurstianus <i>Lea.</i>	Satilla river, Ga.
212	xxvi	93	vii 30	Neislerii <i>Lea.</i>	Flint r., Macon, Ga.
214	xxvi	94	vii 32	Postellii <i>Lea.</i>	Randall's and Car- ter's creek, Ga.
215	xxvii	95	vii 33	Burkensis <i>Lea.</i>	Buckhead cr., Ga.
216	xxvii	96	vii 34	Satillaensis.	Satilla river, Ga.
217	xxvii	97	vii 35	corvus <i>Lea.</i>	Buckhead creek and Ogeechee riv., Ga.
218	xxviii	98	vii 36	compactus <i>Lea.</i>	Etowah and Conna- sauga rivs., Ga.
219	xxviii	100	vii 37	fibuloides <i>Lea.</i>	Connasauga r., Ga.
220	xxix 101 101 ^a		vii 38	phaseolus <i>Hldr.</i>	Anatomy.
221	xxix 102 102 ^a		vii 39	parvus <i>Barnes.</i>	Anatomy.
222	xxx	105	vii 40	multiplicatus <i>Lea.</i>	Anatomy.
				<i>U. heros</i> Say?	
				<i>U. undulatus</i> Say.	
223	xxx	106	vii 41	stramineus <i>Conr.</i>	Anatomy.

JOURN. A. N. SC. Vol. IV, 1859.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
224	xxx	107	vii	42	Unio ventricosus <i>Barnes.</i>	Anatomy.
224	xxix	104	vii	42	Margaritana margaritifera <i>Linn.</i>	Anatomy.
					<i>Mya margaritifera</i> <i>Linn.</i>	
					<i>Margaritana fluviatilis</i> <i>Sch.</i>	
					<i>Unio elongata</i> <i>Lam.</i>	
					<i>Alasm. falcata</i> <i>Gould.</i>	
226	xxxi	108	vii	44	Elliottii <i>Lea.</i>	Chattahoochee r. Ga.
227	xxxi	110	vii	45	Etowahensis <i>Lea.</i>	Tenn., Etowaha, Ga.
228	xxxii	111	vii	46	triangulata <i>Lea.</i>	Ga. and S. C.
229	xxxii	113	vii	47	Connasaugaensis <i>Lea.</i>	Connasauga r. Ga., Tennessee.
230	xxviii	99	vii	48	Anodonta Dariensis <i>Lea.</i>	Hopeton, &c. Ga.
231	xxxi	109	vii	49	Gesnerii <i>Lea.</i>	Uphaupsee cr., Ala.
232	xxxii	112	vii	50	Hallenbeckii <i>Lea.</i>	Uphaupsee cr., Ga.

Haldeman.—Description of *Unio abacoides*, a new species:
by S. S. HALDEMAN. (From American Journal of Science,
(n. s.) vol. ii, p. 274. Sept. 1846.)

Page.

274 **Unio abacoides** *Haldeman.* Eastern Tennessee.

Anthony.—Descriptions of Shells on the cover of Nos. 3 and
4 of Haldeman's *Limnæidæ*. (Vide pp. 67, 68.)

Desor.—(From Proc. Bost. Soc. of Nat. Hist., iii, 75. Nov.
1848.)

[In quoting from the Boston Proceedings the following were overlooked.
—W. G. B.]

Vol. Pa.

iii	75	Remarks on Salpa.	
iii	75	Salpa Caboti <i>Desor.</i>	Nantucket.
iii	76	Pelagia quinquecirrha <i>Desor.</i>	Nantucket.

Carpenter.—Catalogue of the collection of Mazatlan Shells in the British Museum, collected by Frederick Reigen, described by PHILIP P. CARPENTER. London, 1857.¹

July, 1855.

CLASS **BRYOZOA.**

[Omitted, according to the general plan of my work, vid. Preface.—W. G. B.]

CLASS **TUNICATA.**

(None.)

CLASS **PALLIOBRANCHIATA.**

Page.

- 7 **Discina Cumingii** Brod.
Orbicula Cumingii Brod.

CLASS **LAMELLIBRANCHIATA.**

Page.

- 8 **Pholadidea melanura** Sowb.
(Pholas.)
9 **curta?** Sowb. (Pholas.)
9 **Parapholas calva** Gray.
Pholas calva Sowb.
12 **acuminata** Sowb.
Pholus acuminata.
Aug. 1855.
13 **Martesia intercalata** Carp.
13 ——— ?
14 **Gastrochæna truncata** Sow.
15 **ovata** Sowb.
16 **Saxicava arctica** Linn.
? *S. sordida* Sowb.
? *S. Cordieri* Gould.
S. solida.
S. distorta Say.
? *S. pholadis.*
17 **Petricola robusta** Sowb.
? *P. bulbosa* Gould.
19 **ventricosa** Desh.
P. denticulata Sowb.
19 ——— (sp. ined.)

Page.

- 20 **Rupellaria lingua-felis** Carp.
20 **exarata** Carp.
21 ——— (sp. ined.)
21 **Corbula bicarinata** Sowb.
22 **biradiata** Sowb.
22 **pustulosa** Carp.
23 ? **ovulata** Sowb.
23 ——— (sp. ined.)
24 **Sphænia fragilis** Carp.
25 **Tyleria fragilis** Adams.
26 **Lyonsia picta** Sowb.
? *L. cuneata* Orb.
? *Anatina cuneata* Gray.
27 **Solecurtus affinis** C. B. Ad.
27 **politus** Carp.
27 **violascens** Carp.
(S. W. Mexico.)
28 ——— (sp. ined.)
28 **Semele proxima** C. B. Ad.
28 ? **venusta** A. Adams.
Amphidesma venusta Rve.
29 **Cumingia lamellosa** Sowb.
Lavignon lamellosa Orb.

¹ This is the date of the title. Each signature bears a date, commencing with July, 1855.

[Carpenter, Mazatlan Shells.]

Page.		Page.	
30	Cumingia trigonularis Sowb. <i>Lavignon triangularis</i> Gr.	42	? Iphigenia lævigata . <i>Capsa lævigata</i> .
30	Californica Conrad.	43	Donax carinatus Hanley.
31	—— (sp. ined.) [Desh.	43	culminatus Carp.
31	Sanguinolaria purpurea ? <i>Tellina minuta</i> Gould.	44	transversus Sowb.
32	Tellina rufescens Ch. <i>T. operculata</i> Gmel. <i>cruenta</i> Sol. <i>opercularis</i> Sowb.	44	assimilis Hanley.
32	Broderipii Desh.	44	punctato-striatus Hanley. <i>D. radiatus</i> Val. ? <i>flexuosus</i> Gould.
33	Mazatlanica Desh.	46	punctato-striatus var. <i>cælatus</i> .
33	Dombeyi Hanley.	47	Conradi Desh. <i>D. contusus</i> Rve. <i>Californicus</i> Conrad. <i>culter</i> Hanley.
34	felix Hanley.	50	navicula Hanley.
34	straminea Desh.	50	Mactra exoleta Gr.
34	donacilla Carp.	51	(spissula) fragilis Chemn. <i>M. ovalina</i> Lam. <i>Brasiliana</i> Lam. <i>oblonga</i> Say.
35	puicea Born. <i>Donax Martinicensis</i> Lam. <i>T. alternata</i> Sowb. <i>angulosa</i> Gmel. <i>simulans</i> C. B. Adams. ? <i>striata</i> Chemn.	52	angulata Gr. (<i>Mulinia</i> .)
36	? Cumingii Hanley.	52	Gnathodon trigona Pet. (<i>Rangia</i> .) [Carp.
36	? eburnea Hanley.	54	? Clementia gracillima
36	? regularis Carp.	54	Trigona radiata Sowb. <i>Cytherea radiata</i> . <i>Venus Solangensis</i> . <i>T. Byronensis</i> Gr. <i>Cytherea corbicula</i> Mke. ? <i>semifulva</i> Mke. ? <i>gracilior</i> Sowb. ? <i>Hindsi</i> Hanley. ? <i>intermedia</i> Sow.
Sept. 1855.		57	humilis Carp.
37	lamellata Carp.	58	argentina Sowb. (<i>Cytherea</i>).
37	? ? puella C. B. Adams.	58	? ? crassatelloides Conr. <i>Cytherea crassatelloides</i> Hanley.
37	? ? delicatula Desh.	59	planulata Br. and Sowb. <i>Cytherea planulata</i> . <i>Venus planulata</i> . <i>Cytherea undulata</i> Sowb.
38	brevirostris Desh.		
38	? denticulata Desh.		
38	—— (sp. ined.)		
38	—— (sp. ined.)		
39	Burneti Br. and Sowb. <i>Lucina cristata</i> Recl.		
39	Strigilla (<i>Tellina</i>) carriaria L. <i>Cardium carneosum</i> D. Cos. <i>Lucina carriaria</i> Lam. ? <i>S. miniata</i> Gould.		
41	? lenticula Phil. <i>Tellina lenticula</i> Phil.		
41	—— (sp. ined.)		
42	Iphigenia altior Sowb. (<i>Capsa</i> .)		

[Carpenter, Mazatlan Shells.]

- | Page. | | Page. | |
|-------|------------------------------------|------------|--|
| | <i>Donax Lessoni</i> Desh. | | <i>Cytherea brevispinosa</i> Sow. |
| | ? <i>Cytherea mactroides</i> Lam. | 69 | Dione circinata Born. |
| 60 | Dosinia? ponderosa Gr. | | <i>Venus circinata</i> Born. |
| | <i>Artemis ponderosa</i> Gr. | | <i>Guineensis</i> Gmel. |
| | <i>Cytherea gigantea</i> Phil. | | <i>Cytherea Guineensis</i> Lam. |
| | <i>Venus cycloides</i> . | | <i>alternata</i> Br. |
| 61 | Annæ Carp. | | <i>circinata</i> Sowb. |
| 61 | Dunkeri Phil. | 69 | concinna Sowb. |
| | <i>Cytherea Dunkeri</i> Phil. | | <i>Cytherea concinna</i> . |
| | <i>Artemis Dunkeri</i> Rve. | 70 | Cytherea petechialis Lam. |
| | <i>simplex</i> Hanley. | | <i>Meretrix petichialis</i> Enc. M. |
| | <i>D. simplex</i> Desh. | 71 | Venus (Chione) gnidia Br. |
| | <i>Cytherea Pacifica</i> Trosch. | 72 | amathusia Phil. [and Sowb. |
| 62 | Cyclina subquadrata Hanl. | | <i>Chione gnidia</i> (var.) Desh. |
| | <i>Artemis subquadrata</i> . | | ? <i>V. cancellata</i> Mke. |
| | <i>Lucinopsis subquadrata</i> . | | ? <i>succincta</i> Val. |
| | <i>Arthemis succata</i> Gould. | Oct. 1855. | |
| | <i>Cyclina succata</i> Desh. | 73 | —— (sp. ined.) |
| 63 | Dione aurantia Hanley. | 74 | (? <i>Chione</i>) <i>distans</i> Phil. |
| | <i>Cytherea aurantia</i> Hanley. | 74 | (<i>Chione</i>) <i>crenifera</i> Sowb. |
| | <i>Chione aurantia</i> Gr. | | ? <i>Venus elevata</i> Say. |
| | <i>Cytherea aurantiaca</i> Sowb. | | ? <i>radiata</i> Ch. |
| 64 | chionæa Mke. | | <i>portesiana</i> Orb. |
| | <i>Cytherea chionæa</i> Mke. | 75 | ? <i>undatella</i> Sowb. |
| | <i>squalida</i> Sowb. | 75 | Columbiensis Sowb. |
| | <i>Chione squalida</i> Gr. | 76 | —— (sp. ined.) |
| | <i>Venus squalida</i> . | 76 | Tapes histrionica Br. & Sow. |
| | <i>D. squalida</i> Desh. | | <i>Venus histrionica</i> . |
| | <i>Cytherea viradiata</i> Gr. | | <i>Chione histrionica</i> Desh. |
| | <i>chione</i> (pars.) Sb. | 77 | grata Say. |
| | ? <i>elegans</i> Koch. | | <i>Venus grata</i> Say. |
| 66 | rosea Br. and Sowb. | | <i>Chione grata</i> Desh. |
| | <i>Cytherea rosea</i> . | | <i>Venus tricolor</i> Sowb. |
| | <i>D. rosea</i> Desh. | | <i>discors</i> Sowb. |
| | <i>Cytherea lepida</i> Chenu. | | <i>Tapes discors</i> Sowb. |
| 67 | lupinaria Less. | | <i>Chione discors</i> Gr. |
| | <i>Cytherea lupinaria</i> Less. | | ? <i>Venus Entobapta</i> Jonas. |
| | <i>Venus lupinaria</i> . | | ? <i>neglecta</i> Phil. |
| | <i>Chione lupinaria</i> Gr. | 78 | squamosa Carp. [Sowb. |
| | <i>Cytherea dione</i> (var.) Brod. | 79 | Anomalocardia subrugosa |
| | <i>semilamellosa</i> Gd. | | <i>Venus subrugosa</i> Sowb. |
| 68 | ? vulnerata Brod. | | <i>Cytherea subsulcata</i> Mke. |
| | <i>Cytherea vulnerata</i> . | 80 | subimbricata Sowb. |
| 69 | ? brevispinosa Sowb. | | <i>Venus subimbricata</i> Sowb. |

[Carpenter, Mazatlan Shells.]

Page.		Page.	
81	<i>Circe margarita</i> Carp.	101	? <i>Lucina eburnea</i> Ree.
82	<i>subtrigona</i> Carp.	101	—— (sp. ined.)
83	<i>Gouldia pacifica</i> C. B. Ad.	101	? <i>Fimbria</i> —— (sp. ined.)
83	<i>varians</i> Carp.	102	<i>Diplodonta semiaspera</i> ?
84	<i>Cardita Californica</i> Desh.		<i>Phil.</i>
	<i>C. affinis</i> Mke.		? <i>Lucina orbella</i> Gould.
			? <i>semireticulata</i> .
			? <i>calata</i> Ree.
Nov. 1855.			
85	<i>Venericardia</i> —— (sp. ined.)		
86	<i>Trapezium</i> —— (sp. ined.)	103	? <i>semiaspera</i> .
87	<i>Chama frondosa</i> Br.		var. <i>discrepans</i> .
	var. <i>Mexicana</i> .	103	<i>obliqua</i> Phil.
89	var. <i>fornicata</i> .	104	? <i>serricata</i> Ree.
90	<i>spinosa</i> Br.		<i>Lucina serricata</i> Ree.
90	? <i>exogyra</i> Conrad.		<i>Cyrenoidea serricata</i> Carp.
91	<i>Cardium</i> (<i>Lævicardium</i>)	105	<i>Kellia suborbicularis</i> Mont.
	<i>elatum</i> Sowb.		<i>Mya suborbicularis</i> Mont.
91	<i>procerum</i> Sowb.		<i>Tellina suborbicularis</i> Turt.
93	? <i>senticosum</i> Sowb.		<i>Petricola suborbicularis</i> Gr.
	<i>C. rastrum</i> Ree.		<i>Tellinmya suborbicularis</i> Br.
	? <i>C. muricatum</i> Mke.		<i>tenuis</i> Brown.
93	—— (sp. ined. a.)		<i>lactea</i> Brown.
94	—— (sp. ined. b.)		<i>Erycina Geoffroyii</i> Payr.
94	—— (sp. ined. c.)		<i>Amphidesma physoides</i> Lam.
94	—— (sp. ined. d.)		<i>Bornia inflata</i> Phil.
94	—— (sp. ined. e.)	108	<i>Lasea</i> ? <i>rubra</i> Mont.
94	—— (sp. ined. f.)		<i>Cardium rubrum</i> Mont.
94	<i>alabastrum</i> Carp.		<i>Tellina rubra</i> Turt.
95	<i>graniferum</i> Br. and Sowb.		<i>Kellia rubra</i> Turt.
95	—— (sp. ined. g.)		<i>Poronia rubra</i> Récl.
96	<i>Lucina</i> (<i>Codakia</i>) <i>tigerina</i>		<i>Petricola rubra</i> Gray.
	<i>Venustigerina</i> Linn. [Linn.]		<i>Bornia semilunum</i> Phil.
	<i>Cytherea tigerina</i> Lam.		<i>Erycina violacea</i> Scaechi.
97	?? <i>punctata</i> Linn.		<i>Cycladina Adansonii</i> Cant.
	<i>Venus punctata</i> Linn.		<i>Cyclas australis</i> Lam.
	<i>Cytherea punctata</i> Lam.		<i>Amphidesma nucleola</i> Lam.
97	? <i>annulata</i> Ree.		<i>Autonoe rubra</i> Leach.
98	? <i>muricata</i> Chemn.	Dec. 1855.	
98	<i>excavata</i> Carp.	109	<i>trigonalis</i> Carp.
98	—— (sp. ined.)	109	? <i>oblonga</i> Carp.
98	<i>pectinata</i> Carp.	110	<i>Lepton Clementinum</i> Carp.
99	<i>cancellaris</i> Phil.	111	<i>Dionæum</i> Carp.
99	<i>Mazatlanica</i> Carp.	111	<i>umbonatum</i> Carp.
100	<i>prolongata</i> Carp.	111	(<i>placunoideum</i> C. W. Ind.)
101	—— (sp. ined.)	112	<i>Pythina sublævis</i> Carp.

[Carpenter, Mazatlan Shells.]

- | Page. | | Page. | |
|------------|--|------------|--|
| 113 | Montacuta elliptica <i>Carp.</i> | 129 | Lithophagus aristatus |
| 113 | <i>subquadrata</i> <i>Carp.</i> | | (var.) <i>gracilior.</i> |
| 114 | — (sp. ined.) | 129 | var. <i>tumidiior.</i> |
| 114 | Cyrena olivacea <i>Carp.</i> [Phil. | 129 | <i>cinnamomeus</i> <i>Chemn.</i> |
| | <i>C. Fontainei</i> Desh. nec | | <i>Mytilus cinnamomeus</i> Ch. |
| 115 | Mexicana Br. and Sowb. | | <i>Modiola cinnamomea</i> Lam. |
| | <i>C. varians</i> <i>Carp.</i> | | <i>Lithodomus cinnamomeus.</i> |
| | <i>altilis</i> Gould. | | <i>Lithophagus cinnamomeus</i> |
| | <i>fragilis</i> Desh. | | Dunk. |
| | ? <i>Floridana</i> Conrad. | 130 | Leiosolenus spatiosus <i>Car.</i> |
| 117 | Anodonta ciconia Gould. | 131 | — (sp. ined.) |
| | <i>A. sinuata</i> Swainson. | 132 | Arca grandis Br. and Sowb. |
| 118 | Mytilus palliopunctatus | Feb. 1856. | |
| 118 | <i>multiformis</i> Dunk. [Dunk. | 134 | <i>multicostata</i> Sowb. |
| 120 | Septifer Cumingii Récluz. | 134 | ? <i>labiata</i> Sowb. |
| 121 | Modiola capax Conrad. | 134 | <i>bifrons</i> <i>Carp.</i> |
| | <i>M. spinifera</i> <i>Carp.</i> | 135 | <i>tuberculosa</i> Sowb. |
| | ? <i>Mytilus spatula</i> Mke? | 136 | <i>reversa</i> Gray. |
| Jan. 1856. | | | <i>A. hemicaudum</i> Koch. |
| 121 | Brasiliensis Ch. | 136 | <i>brevifrons</i> Sowb. |
| | <i>Mytilus</i> mod. <i>Brasiliensis</i> | 137 | <i>emarginata</i> Sowb. |
| | <i>bicolor</i> Brug. [Ch. | 137 | — (sp. ined.) |
| | <i>Guyanensis</i> Desh. | 138 | Byssoarca pacifica Sowb. |
| | <i>M. Guyanensis</i> Desh. | | <i>Arca pacifica</i> Rve. |
| | <i>semifusca</i> Sowb. | 139 | <i>mutabilis</i> Sowb. |
| 122 | var. <i>mutabilis.</i> | | <i>Arca mutabilis</i> Rve. |
| 123 | Crenella coarctata Dunk. | 140 | <i>fusca</i> Brug. |
| 124 | Lithophagus attenuatus | | <i>Arca fusca</i> Brug. |
| | Desh. | | <i>barbata</i> (var.) Gmel. |
| | <i>Modiola attenuata</i> Desh. | | <i>bicolorata</i> Chemn. |
| | <i>Lithodomus caudigerus</i> | 140 | <i>vespertilio</i> <i>Carp.</i> |
| | (var.) Sowb. | 141 | <i>illota</i> Sowb. |
| 124 | <i>calyculatus</i> <i>Carp.</i> | | <i>Arca illota</i> Rve. |
| 125 | <i>plumula</i> Hanley. | 141 | <i>gradata</i> Br. and Sowb. |
| | <i>Modiola plumula</i> Hanley. | | <i>Arca gradata.</i> |
| 126 | <i>aristatus</i> Sol. | | <i>squamosa</i> Lam. |
| | <i>Mytilus aristatus</i> Dillw. | | <i>Domingensis</i> Lam. |
| | <i>Lithodomus aristatus</i> Forb. | | <i>clathrata</i> DeFr. |
| | and Hanley. | 143 | <i>solida</i> Sowb. |
| | <i>Myt. lith. striatus</i> J. Sowb. | | <i>Arca solida</i> Rve. |
| | <i>Modiola caudigera</i> Lam. | 144 | Pectunculus inæqualis Sb. |
| | <i>Mytilus Ropan</i> Desh. | | <i>P. pectiniformis</i> Wood. |
| | <i>Lithodomus caudigerus</i> Sow. | | <i>assimilis</i> Sowb. |
| | <i>lithophagus</i> Fl. | 144 | ? <i>multicostatus</i> Sowb. |

[Carpenter, Mazatlan Shells.]

Page.		Page.	
145	<i>Nucula</i> ? <i>exigua</i> Sowb.	March, 1856.	
145	<i>Leda</i> ? <i>Elenensis</i> Sowb.	157	<i>Ostrea iridescens</i> Gray.
	<i>Nucula Elenensis</i> Sowb.		<i>O.</i> (sp. ined. b.) C. B. Ad.
146	<i>Pinna maura</i> Sowb.		<i>O. rufa</i> (pars.?) Gould.
147	<i>lanceolata</i> Sowb.	159	<i>Virginica</i> Gmel.
147	? <i>rugosa</i> Sowb.		<i>O. rostrata</i> , §c. Ch.
148	<i>Avicula sterna</i> Gould.		<i>elongata</i> Sol.
	<i>A. Atlantica</i> Mke.		<i>crassa</i> Ch.
149	<i>Margaritiphora Mazatlanica</i> Hanley.		<i>Gryphæa angulata</i> Lam.
	<i>Meleagrina Mazatlanica</i> Hanley.		<i>O. Canadensis</i> Lam.
150	<i>Isognomon Chemnitzianum</i> d'Orb.		<i>longirostris</i> Lam.
	<i>Perna Chemnitziana</i> d'Orb.		(sp. ined. d.) C. B. Ad.
	<i>flexuosa</i> Sowb.		? <i>rufa</i> Gould (pars.)
151	<i>Janus</i> Carp.	161	<i>Columbiensis</i> Hanley.
152	<i>Pecten circularis</i> Sowb.	161	<i>conchaphila</i> Carp.
152	<i>Spondylus calcifer</i> Carp.	163	<i>conchaphila</i> ? (var.) pal-
	<i>S. Lamarckii</i> Hanl., &c.?	164	—— (sp. ined.) [mula.
155	—— (sp. ined.)	164	<i>Placunanomia pernoides</i>
155	<i>Plicatula penicillata</i> Carp.	166	<i>foliata</i> Br. [Carp.
	<i>P. dubia</i> (var.) Sowb.		<i>P. echinata</i> Br.
			<i>pectinata</i> Br.
		166	<i>claviculata</i> Carp.
		167	<i>Anomia lampe</i> Gr.
		169	—— (sp. ined.)

CLASS GASTEROPODA.

Sub-class Opisthobranchiata.

Page.		Page.	
170	<i>Cylichna luticola</i> C. B. Ad.	171	<i>Tornatina carinata</i> Carp.
	<i>Bulla</i> (Cyl.) <i>luticola</i> C. B. A.	172	<i>Bulla Adamsi</i> Mke.
	<i>Haminea luticola</i> H. & A. A.	173	? <i>nebulosa</i> Gould.
171	<i>Tornatina infrequens</i>	173	? <i>Quoyii</i> Gray.
	<i>C. B. Adams.</i>	173	<i>exarata</i> Carp.
	<i>Bulla</i> (Torn.) <i>infrequens</i>	174	—— (sp. ined.)
	<i>C. B. Adams.</i>	174	<i>Haminea cymbiformis</i> Car.
	<i>Bulla</i> (Torn.) <i>gracilis</i> Mke		

Sub-class Pulmonata.

Page.		Page.	
175	<i>Glandina Albersi</i> Pfr.	175	<i>Glandina turris</i> Pfr. (Ach.)
	<i>Achatina Albersi</i> Pfr.		<i>Acicula turris</i> H. & A. Ad.
			<i>Gl. Albersi</i> (var.) <i>turrita</i> C.

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Page.		Page.	
176	Orthalicus zebra Müll. <i>Buccinum zebra</i> Müll. <i>Bulla zebra</i> Gmel. <i>Achatina zebra</i> Pfr. <i>O. undatus</i> Beck. <i>zebra</i> Beck. <i>Helix undatus</i> Fer. <i>Bulimus melanocheilus</i> Val. <i>Orthalicus vivens</i> Beck. <i>Bulimus zig-zag</i> Lam. <i>princeps</i> Brod. <i>Helix princeps</i> Orb. <i>Orthalicus princeps</i> Beck. <i>Achatina pulchella</i> Spix.	177	Orthalicus ? Mexicanus Lam. <i>Bulimus Mexicanus</i> Lam. <i>Leiostracus Mexicanus</i> H. <i>Helix vittata</i> Fer. [& A. Ad.
177	Ziegleri Pfr. <i>B. Ziegleri</i> Pfr. <i>Leiostracus Ziegleri</i> H. and A. Adams.	178	Melampus olivaceus Carp.
		179	Aplexa aurantia Carp. <i>Physa Peruviana</i> Mke. non
		180	elata Gould. [Gr. <i>P. elata</i> Gould.
		April, 1856.	
		181	Planorbis tumens Carp. <i>Pl. affinis</i> Carp. non C. B. <i>tenagophilus</i> Mke. [Ad.
		182	Siphonaria Lecanium Phil.
		183	var. palmata .
		184	æquilirata Carp.
		184	—— (sp. ined.)

Sub-class **Prosobranchiata.**

Page.		Page.	
185	Janthina striulata .	198	Acanthochites Arragon- ites Carp.
186	var. contorta .	199	Patella Mexicana Br. and <i>Lottia gigantea</i> . [Sowb. <i>P. maxima</i> .
187	decollata .	200	pediculus Phil. <i>P. corrugata</i> Rve.
188	Dentalium liratum Carp.	201	discors Phil.
188	hyalinum Phil.	202	Nacella —— (sp. ined.)
189	corrugatum Carp.	203	Acmaea mesoleuca Mke. <i>A. mutabilis</i> Mke. <i>Patella diaphana</i> Rve. <i>Lottia patina</i> C. B. Ad. <i>P. personoides</i> (pars?) Mid. <i>æuginosa</i> ? Midd. <i>L. pintadina</i> Gld. (pars.)
189	? pretiosum Nutt.		
190	Lophyrus articulatus Sowb. <i>Chiton articulatus</i> Sowb.	May, 1856.	
191	albolineatus Br. and Sowb. <i>Chiton albolineatus</i> .	205	fascicularis Mke. <i>A. mutabilis</i> (pars.) <i>Patella opea</i> Rve. <i>discors</i> Carp.
192	striatosquamosus Carp.	207	patina Esch.
193	? Tonicia Forbesii Carp.		
194	Lepidopleurus sanguineus [Rve. <i>Chiton sanguineus</i> Rve.		
195	clathratus Carp.		
195	bullatus Carp.		
196	var. calciferus .		
196	Mac Andrei Carp.		
197	Beanii Carp.		
198	Chiton flavescens Carp.		

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Page.		Page.	
	<i>A. scutum</i> Esch.		<i>Cremides Peruviana</i> H. and
	<i>P. mamillata</i> Nutt.		[A. Adams.
	<i>tessellata</i> Nutt.	219	Fissurella spongiosa Carp.
	<i>fenestrata</i> Nutt.	220	Glyphis inæqualis Sowb.
	<i>verriculata</i> Rve.		<i>Fissurella inæqualis</i> Sowb.
	<i>cinis</i> Rve.		<i>Lucapina inæqualis</i> H. & A.
	<i>Nuttalliana</i> Rve.		<i>Fissurella pica</i> Sowb. [Ad.
	? <i>Cumingii</i> Rve.		<i>Lucapina pica</i> H. & A. Ad.
	<i>diaphana</i> Nutt.	221	<i>alta</i> C. B. Adams.
	<i>L. pintadina</i> Gld. (pars.)		<i>Fissurella alta</i> C. B. Ad.
208	Acmaea persona Esch.		<i>Lucapina alta</i> H. & A. Ad.
	<i>A. radiata</i> Esch.	222	Rimula Mazatlanica Carp.
	<i>anceylus</i> Esch.	223	Callopoma (Turbo) fluctuosum Mawe.
	<i>scutum</i> D'Orb.		<i>Trochus Fokkesii</i> Jonas.
	<i>Lottia punctata</i> Gr.	224	Phasianella perforata Phil.
	<i>Patella Oregona</i> Nutt.	225	var. <i>striolata</i> .
	<i>umbonata</i> Nutt.	225	compta Gould. [Beck.
	<i>pileata</i> Nutt.	226	Bankivia varians (junior)
209	<i>scabra</i> Nutt.		<i>Phasianella fuscata</i> Mke.
210	<i>mitella</i> Mke.		<i>undatella</i> Mke.
	<i>P. navicula</i> Rve. [Carp.		<i>fulminata</i> Mke.
211	Scutellina navicelloides	227	Uvanilla (Imperator) olivacea Mawe.
212	Gadinia pentagoniostoma		<i>Trochus olivaceus</i> Gr.
	<i>Sowb.</i> [Sowb.		<i>Imperator olivaceus</i> Carp.
	<i>Siphonaria pentagoniostoma</i>		<i>U. olivacea</i> H. and A. Ad.
213	Fissurella virescens Sowb.		<i>Trochus brevispinosus</i> Val.
215	Barbadensis Gmel.		<i>erythrophthalmus</i> Phil.
	<i>Patella Barbadensis</i> Gmel.		? <i>Melchersi</i> Mke.
	<i>perforata</i> Gmel.		
	<i>rosea</i> Gmel.		
	<i>porphyrozonias</i> Gm.	June, 1856.	
	<i>Cremides Barbadensis</i> H.	229	inermis Gmel.
215	<i>rugosa</i> Sowb. [and A. Ad.		<i>Trochus inermis</i> Gmel.
	<i>Cremides rugosa</i> H. & A. Ad.		<i>olivaceus</i> Phil. non
	<i>F. chlorotrema</i> Mke.	229	unguis Mawe. [Gray.
	<i>humilis</i> Mke.		<i>Trochus unguis</i> Mawe.
	<i>viminea</i> Mke.		<i>Turbo unguis</i> Desh.
	<i>virescens</i> (jun.) Carp.		<i>digitatus</i> Desh.
217	nigrocincta Carp.		<i>Trochus amictus</i> Val.
217	— (sp. ined.)		? <i>stellaris</i> Mke.
218	<i>alba</i> Carp.	231	Trochus versicolor Mke.
219	Peruviana Lam.		? <i>Ziziphinus Californicus</i>
	<i>F. subrotundata</i> Desh.	232	Mac Andreæ Carp. [A. Ad.
	<i>affinis</i> (var.)		

[Carpenter, Mazatlan Shells.]

Page.		Page.	
233	Omphalius ? rugosus (var.) <i>rufotinctus</i> . ? <i>Chlorostoma rugosum</i> A.	251	Ethalia pyricalloso <i>Carp.</i>
234	viridulus <i>Gmel.</i> [Adams. <i>Trochus viridula</i> <i>Gmel.</i> <i>Globulus</i> , &c. <i>Chëmn.</i> <i>Phorcus variegatus</i> A. Ad. <i>Trochus Brasiliensis</i> Mke. <i>Byronianus</i> Wood. <i>reticulatus</i> Gould.	251	<i>lirulata</i> <i>Carp.</i>
235	Omphalius ligulatus <i>Mke.</i> <i>Trochus ligulatus</i> <i>Mke.</i> ? <i>Phorcus Californicus</i> A. Adams. <i>O. Californicus</i> H. & A. Ad. <i>Trochus mugus</i> , &c. &c.	252	<i>pallidula</i> <i>Carp.</i>
236	globulus <i>Carp.</i> <i>Trochus glomus</i> <i>Mke.</i>	252	<i>carinata</i> <i>Carp.</i>
238	Vitrinella Panamensis <i>C.</i>	June, 1856.	
238	parva <i>C. B. Ad.</i> [B. Ad. <i>V. clathrata</i> <i>Carp.</i>	253	<i>amplectans</i> <i>Carp.</i> [Carp.
239	decussata <i>Carp.</i>	253	Teinostoma amplectans
240	monile <i>Carp.</i>	254	<i>substriatum</i> <i>Carp.</i>
240	monilifera <i>Carp.</i>	254	Trochus — (sp. ined.)
241	lirulata <i>Carp.</i>	255	Nerita scabricosta <i>Lam.</i>
241	subquadrata <i>Carp.</i>		<i>N. ornata</i> Sowb.
241	bifilata <i>Carp.</i>		<i>Deshayesii</i> Récl.
242	bifrontia <i>Carp.</i>		<i>multijugis</i> <i>Mke.</i>
243	perparva <i>C. B. Adams.</i> var. <i>nodosa</i> . <i>V. nodosa</i> <i>Carp.</i>		<i>Pila multijugis</i> H. & A. Ad. <i>ornata</i> H. & A. Ad. <i>scabricosta</i> H. & A. Ad.
243	exigua <i>C. B. Adams.</i>	257	Bernhardi Récl.
244	coronata <i>Carp.</i>		<i>N. funiculata</i> <i>Mke.</i>
245	? annulata <i>Carp.</i>		<i>N. —</i> (sp. ined. a.) <i>C.</i>
245	cincta <i>Carp.</i>		B. Adams.
246	carinulata <i>Carp.</i>		<i>Theliostyla Bernhardi</i> H.
246	? naticoides <i>Carp.</i>		and A. Adams.
246	? planospirata <i>Carp.</i>	258	Neritina cassiculum Sowb.
247	? orbis <i>Carp.</i>	259	<i>picta</i> Sowb.
248	? Liotia carinata <i>Carp.</i>		<i>Vitta picta</i> H. and A. Ad.
248	? striulata <i>Carp.</i>	262	Vanikoro cryptophila <i>Carp.</i>
249	?? C. B. Adamsii <i>Carp.</i>	264	Trochita ventricosa <i>Carp.</i>
249	? — (sp. ined.)	July, 1856.	
250	? Globulus tumens <i>Carp.</i>	265	Galerus conicus <i>Brod.</i>
			<i>Calyptraea</i> (<i>Siphopatella</i>)
			<i>conica</i> <i>Brod.</i>
		266	mamillaris <i>Brod.</i>
			<i>Calyptraea</i> (<i>Siphopatella</i>)
			<i>mamillaris</i> .
			<i>C. regularis</i> <i>C. B. Ad.</i>
			<i>Lamarckii</i> <i>Mke.</i>
			? <i>lichen</i> <i>Brod.</i>
			<i>G. lichen</i> H. and A. Ad.
		268	Crepidula aculeata <i>Gmel.</i>
			<i>Patella aculeata</i> <i>Gmel.</i>
			<i>fornicata</i> , &c. <i>Ch.</i>
			<i>La Retorte épineuse</i> Fav.
			<i>Crepidatella aculeata</i> H. &
			A. Adams.

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Page.		Page.	
	<i>Crepidula capensis</i> H. & A. Adams.		<i>Crypta incurva</i> H. & A. A.
	<i>Calyptrea echinus</i> Br.		<i>Crepidula hepatica</i> Mke.
	<i>hystrix</i> Br.	278	Crepidula onyx Sowb.
	<i>Crepidula hystrix</i> Br.		<i>Crypta onyx</i> H. & A. Ad.
	<i>costata</i> Mke.		? <i>Crepidula hepatica</i> C.B.A.
	<i>Californica</i> Nutt.		<i>Crepidatella hepatica</i> H. & A. Adams.
272	Crepidula dilatata Lam.		<i>Calyptrea amygdulus</i> Val.
	[A. Ad.]		<i>Crepidula contorta</i> Mke.
	<i>Crepidatella dilatata</i> H. &		<i>Cerithicola</i> Mke.
	<i>Crepidula depressa</i> Desh.	280	nivea C. B. Adams.
	<i>Peruviana</i> Lam.		<i>Crypta nivea</i> H. & A. Ad.
	<i>Crypta Peruviana</i> H. & A. A.		<i>Calyptrea squama</i> Br.
	<i>patula</i> H. & A. A.		<i>Crepidula squama</i> Lam.
	<i>Crepidula patula</i> Desh.		<i>Ianacus squama</i> H. & A. A.
	<i>Adolphei</i> Less.		<i>Crepidula Goreensis</i> Mke.
	<i>Crepidatella Adolphei</i> H. & A. Adams.		<i>striolata</i> Mke.
	<i>Crepidula Nautiloides</i> Less.		<i>Lessonii</i> Br.
	<i>striata</i> Lam.		<i>Ianacus Lessonii</i> H. & A. A.
	<i>Calyptrea striata</i> Br.		<i>unguiculus</i> Sowb.
	<i>Crepidatella striata</i> H. & A. Adams.		<i>Crepidula unguicula</i> Br.
	<i>pallida</i> Br.		<i>Patagonica</i> Br.
	<i>Crepidula pallida</i> Lam.	284	? unguiformis Lam.
	<i>arcuata</i> D'Orb.		<i>Patella crepidula</i> Linn.
	<i>Calyptrea foliacea</i> Br.		<i>unguiformis</i> Lam.
	<i>Crepidula Patagonica</i> D'O.		<i>Italica</i> Defr.
273	? dorsata Br. (var.) <i>bilobata</i> .		<i>plana</i> Say. [A.]
	<i>Calyptrea dorsata</i> Br.		<i>Ianacus unguiformis</i> H. & A.
274	excavata Brod.	287	Crucibulum imbricatum
	<i>Calyptrea excavata</i> Br.		<i>Sowb.</i>
275	adunca Sowb.		<i>Calyptrea imbricata</i> Sowb.
	<i>C. solida</i> Hinds.		<i>Crucibulum scutellatum</i> Gr.
	<i>Crypta solida</i> H. & A. Ad.		<i>Patella scutellata</i> Gr.
	<i>Crepidula rostriformis</i> Gld.		<i>Calyptrea rugosa</i> Less.
	<i>rostrata</i> C. B. A.		<i>auriculata</i> Carp.
	<i>Crypta rostrata</i> H. & A. Ad.		<i>extinctorum</i> Sb.
	<i>Crepidula uncata</i> Mke.		<i>Crucibulum extinctorum</i> H. and A. Adams.
	<i>incurva</i> (var.)		<i>Calyptrea rugosa</i> Val.
	Carp.		<i>dentata</i> Mke.
	<i>Garnotia solida</i> Gray.		<i>auricularis</i> Des.
276	incurva Brod.	Aug. 1856.	
		290	spinosum Sowb.

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Page.		Page.	
	<i>Calyptrea spinosa</i> Sowb.	308	—— (sp. ined. b.)
	<i>Patella</i> <i>Peziza</i> Wood.	309	Petalochonchus macro-
	<i>Calyptrea tubifera</i> Less.		phragma <i>Carp.</i>
	<i>Dispolia tubifera</i> Say.	315	Cæcum insculptum <i>Carp.</i>
	<i>Calyptrea auriculata</i> D'Or.	315	subspirale <i>Carp.</i>
	tennis Br.	316	abnormale <i>Carp.</i>
	hispida Br. [Ad.	317	obtusum <i>Carp.</i>
	<i>Crucibulum hispida</i> H. & A.	317	liratocinctum <i>Carp.</i>
	maculatum H. & A. A.	318	var. tenuiliratum.
	<i>Calyptrea maculata</i> Br.	318	var. subobsoletum.
295	Calyptrea cepacea Br.	318	var. subconicum.
296	Hipponyx serratus <i>Carp.</i>	319	heptagonum <i>Carp.</i>
297	antiquatus Linn.	319	elongatum <i>Carp.</i>
	<i>Patella antiquata</i> Linn.	319	var. semilæve.
	<i>Lepas alba</i> Mart.	320	subimpressum <i>Carp.</i>
	<i>Patella mitrula</i> Gmel.	320	firmatum <i>C. B. Adams.</i>
	nirea Gmel.		<i>C. eburneum</i> <i>C. B. Ad.</i>
	<i>Le Soron</i> Adams.		monstrosus <i>C. B. Ad.</i>
	<i>Pileopsis antiquata</i> F. & H.		pygmaeum <i>C. B. Ad.</i>
	<i>Concholepas antiquatus</i> H.		diminutum <i>C. B. Ad.</i>
	and A. Adams.	322	clathratum <i>Carp.</i>
	<i>Pileopsis mitrula</i> Lam.	322	quadratum <i>Carp.</i>
	<i>Capulus mitrula</i> Dunk.	322	var. compactum.
	<i>Hipponice mitrale</i> Defr.	323	undatum <i>Carp.</i>
	<i>Hipponyx Panamensis</i> C.		? <i>C. parvum</i> <i>C. B. Adams.</i>
	B. Ad. [A. Ad.	Sept. 1856.	
	<i>Amalthea Panamensis</i> H. &	325	læve <i>C. B. Adams.</i>
298	planatus <i>Carp.</i>	326	farcimen <i>Carp.</i>
299	barbatus Sowb.	327	glabriforme <i>Carp.</i>
	? <i>H. australis</i> Mke.	327	corrugulatum <i>Carp.</i>
299	(<i>Amalthea</i>) <i>Grayanus</i> Jk.	328	dextroversum <i>Carp.</i>
	<i>H. radiata</i> Gr.	329	reversum <i>Carp.</i>
300	Capulus —— (sp. ined.)	329	teres <i>Carp.</i>
301	Aletes centiquadrus Val.	330	Turitella goniostoma Val.
	<i>Vermetus centiquadrus</i> Val.		<i>Haustator goniostoma</i> H. &
	<i>Peronii</i> Val.		A. Adams.
302	var. imbricatus.		<i>T. lentiginosa</i> Rve.
303	margaritarum Val.		<i>Hookeri</i> Mke.
	<i>Vermetus margaritarum</i> Val.	332	tigrina Kien.
304	Vermetus eburneus Rve.		<i>Haustator tigrina</i> H. & A. A.
305	? <i>Bivonia contorta</i> <i>Carp.</i>		<i>T. imbricata</i> Mke.
307	? var. indentata.	333	Cerithium maculosum Kien.
307	albida <i>Carp.</i>		<i>C. adustum</i> Kien.
307	—— (sp. ined. a.)		nebulosum Sowb.

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334	Cerithium ? famelicum C. <i>B. Adams.</i> <i>C. uncinatum</i> Sowb.	352	Modulus catenulatus Phil. <i>Trochus catenulatus</i> Küst. <i>M. trochiformis</i> Ey. & Soul. <i>Carchedonicus</i> Carp.
334	var. mediolæve. <i>C. unbonatum</i> Sowb.	353	—— (sp. ined.)
335	? uncinatum Gmel. <i>Murex uncinatus</i> Gmel. No. 198 Schr. <i>Strombus muricatus</i> &c. Sc. <i>C. famelicum</i> (pars.) C.B.A.	353	disculus Phil. <i>Trochus disculus</i> Phil. <i>M. duplicatus</i> (var.) A.Ad. <i>dorsuosus</i> Gould.
336	—— (sp. ined. a.)	354	Fossarus tuberosus Carp. ? <i>Trichotropis</i> (sp. 1.) [Carp.]
336	alboliratum Carp.	354	angulatus Carp.
337	—— (sp. ined. b.)	355	Isapis maculosa Carp.
337	stercus-muscarum Val. <i>C. irroratum</i> Gould. <i>occellatum</i> Mke.	356	—— (? sp. ined.)
338	interruptum Mke. ? <i>C. —</i> (sp. ined.) C.B.A.	356	Rissoina stricta Mke. <i>Rissoa stricta</i> Mke.
339	Vertagus gemmatus Hinds. <i>Cerithium gemmatum</i> Hds. <i>V. gemmatus</i> H. & A. Ad.	357	—— (sp. ined.)
340	—— (sp. ined.)	357	Woodwardii Carp.
341	Triforis alternatus C. B. Ad.	358	lirata Carp.
341	inconspicuus C. B. Ad.	359	Alvania excurvata Carp.
342	? infrequens C. B. Ad.	359	effusa Carp.
342	Cerithidea Montagnei D'O. <i>Cerithium Montagnei</i> D'Or. <i>Reeveanum</i> C. B. A.	360	tumida Carp.
344	varicosa Sowb. (var.) Mazatlanica. <i>C. varicosum</i> Sowb.? <i>validum</i> C. B. Ad.	360	—— (sp. ined.)
346	Littorina conspersa Phil. <i>L. puncticulata</i> Phil. <i>Melaraphe puncticulata</i> H. and A. Adams. <i>L. modesta</i> Mke.	360	Cingula — (sp. ined.)
348	aspera Phil. <i>Melaraphe aspera</i> H. & A.A.	361	Hydrobia ulvæ Penn. <i>Turbo ulvæ</i> Penn. <i>Paludinea stagnalis</i> Midd. ? <i>Helix stagnalis</i> Linn.
Oct. 1856.		361	—— (sp. ined.)
349	Philippii Carp.	362	Jeffreyssia bifasciata Carp.
350	—— (sp. ined.)	362	? Alderi Carp.
351	Littorina fasciata Gray. <i>Melaraphe fasciata</i> Gr.	363	tumens Carp.
		363	? — (sp. ined.)
		364	Truncatella — (sp. ined.)
		364	Planaxis nigrifella Forbes. <i>Pl. acutus</i> Mke. <i>obsoletus</i> Mke.
		366	Alaba supralirata Carp.
		367	violacea Carp.
		367	terebralis Carp.
		368	alabastrites Carp.
		368	scalata Carp.

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368	Alaba ? conica <i>Carp.</i>	Nov. 1856.	
369	? <i>mutans</i> <i>Carp.</i>	385	Myurella Hindsi <i>Carp.</i>
369	? <i>laguncula</i> <i>Carp.</i>	386	<i>subnodosa</i> <i>Carp.</i>
370	? ——— (sp. ined. a.)	386	rufocinerea <i>Carp.</i>
370	? ——— (sp. ined. b.)	387	Subula luctuosa <i>Hinds.</i>
370	Ovula variabilis <i>C. B. Ad.</i>		<i>Terebra luctuosa</i> <i>Hinds.</i>
	<i>O. Californica</i> <i>Sowb.</i>		<i>Hastula luctuosa</i> <i>H. & A. A.</i>
371	Cypræa exanthema <i>Linn.</i>	388	Euryta fulgurata <i>Phil.</i>
	<i>C. zebra</i> <i>Linn.</i>		<i>Terebra arguta</i> <i>Gould.</i>
	<i>cervinetta</i> <i>Kien.</i>	389	<i>aciculata</i> <i>Lam.</i> [Lam.
	<i>cervus</i> (var.) <i>Rve.</i>		? <i>Buccinum aciculatum</i>
Oct. 1856.			<i>Terebra aciculata</i> <i>Gr.</i>
373	Luponia ? spurca <i>Linn.</i>	390	Pleurotoma funiculata <i>Val.</i>
	<i>Cypræa spurca</i> <i>Linn.</i>		<i>P. olivacea</i> (var.) <i>Rve.</i>
	<i>flavcola</i> <i>Lam.</i>		<i>Surcula funiculata</i> <i>H. & A.</i>
	<i>acicularis</i> <i>Gmel.</i>	391	maculosa <i>Sowb.</i> [Ad.
373	Aricia arabicula <i>Lam.</i>		<i>Drillia maculosa</i> <i>H. & A. A.</i>
	<i>Cypræa arabicula</i> <i>Lam.</i>	392	Drillia incrassata <i>Sowb.</i>
	? <i>punctulata</i> <i>Gr.</i>		<i>Pleurotoma incrassata</i> <i>Sb.</i>
375	Trivia pustulata <i>Lam.</i>		<i>Crassispira incrassata</i> <i>H.</i>
	<i>Cypræa pustulata</i> <i>Lam.</i>		& <i>A. Adams.</i>
	<i>Pustularia pustulata</i> <i>H. &</i>		<i>Pleurotoma Bottæ</i> <i>Kien.</i>
376	radians <i>Lam.</i> [A. Ad.	393	rudis <i>Sowb.</i>
	<i>Cypræa radians</i> <i>Lam.</i>		<i>Pleurotoma rudis</i> <i>Sowb.</i>
	<i>oniscus</i> <i>Wood.</i>		<i>Crassispira rudis</i> <i>H. & A. A.</i>
377	Solandri <i>Gray.</i>	393	aterrima <i>Sowb.</i> var. <i>Mel-</i>
	<i>Cypræa Solandri</i> <i>Sowb.</i>		<i>chersi.</i>
378	sanguinea <i>Gr.</i>		<i>Pleurotoma aterrima</i> <i>Sowb.</i>
	<i>Cypræa sanguinea</i> <i>Sowb.</i>		<i>Crassispira aterrima</i> <i>H. &</i>
	<i>fusca</i> <i>Gray.</i>		<i>A. Adams.</i>
379	pulla <i>Gaskoin.</i>		? <i>Pleurotoma maura</i> <i>Val.</i>
	<i>C. pulla</i> <i>Gaskoin.</i>		<i>Melchersi</i> <i>Mke.</i>
379	subrostrata <i>Gray.</i>		? <i>discors</i> <i>Sowb.</i>
	<i>Cypræa subrostrata</i> <i>Sowb.</i>		? <i>atrior</i> <i>C. B. A.</i>
380	Cancellaria urceolata <i>Hind.</i>		<i>rustica</i> <i>Carp.</i>
	<i>C. obesa</i> <i>Carp.</i>	394	? cerithoidea <i>Carp.</i>
	? <i>orata</i> <i>Mke.</i>	395	zonulata <i>Rve.</i>
380	goniostoma <i>Sowb.</i>		<i>Pleurotoma cincta</i> <i>Sowb.</i>
381	Strombus galeatus <i>Swains.</i>		<i>zonulata</i> <i>Rve.</i>
	<i>S. galea</i> <i>Wood.</i>		<i>Crassispira zonulata</i> <i>H. &</i>
	<i>crenatus</i> <i>Sowb.</i>	395	monilifera <i>Carp.</i> [A. Ad.
382	granulatus <i>Swains.</i>	396	albovallosa <i>Carp.</i>
383	gracilior <i>Sowb.</i>	397	albonodosa <i>Carp.</i>
384	Myurella albo-cincta <i>Carp.</i>	397	luctuosa <i>Hinds.</i>

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	<i>Clavatula luctuosa</i> Hinds.		<i>Pyramidella conica</i> C. B. A.
	<i>Pleurotoma luctuosa</i> Rve.	410	<i>Odostomia subilirulata</i> Car.
	<i>Crassispira luctuosa</i> H. &	410	—— (sp. ined.)
	A. Adams.	411	<i>lamellata</i> Carp.
398	? <i>Hanleyi</i> Carp.	411	<i>subsulcata</i> Carp.
398	—— (sp. ined.)	411	<i>vallata</i> Carp.
398	—— (sp. ined.)	412	<i>mammillata</i> Carp.
399	<i>Clathurella rava</i> Hinds.	412	<i>tenuis</i> Carp.
	<i>Clavatula rava</i> Hinds.	413	<i>Auriculina</i> —— (sp. ined. a.)
	<i>Defrancia rana</i> H. & A. A.	413	—— (sp. ined. b.)
	? <i>Pleurotoma rava</i> Rve.	413	—— (sp. ined. c.)
400	<i>aurea</i> Carp.	413	<i>Parthenia scalariformis</i> Cp.
400	<i>Mangelia</i> ? <i>acuticostata</i>	414	<i>quinquecincta</i> Carp.
	var. <i>subangulata</i> .	414	<i>lacunata</i> Carp.
401	<i>Cithara</i> —— (sp. ined.)	415	<i>armata</i> Carp.
401	<i>Conus regularis</i> Sowb.	415	<i>exarata</i> Carp.
	<i>Leptoconus regularis</i> H. &	416	<i>ziziphina</i> Carp.
402	<i>purpurascens</i> Br. [A. Ad.	417	<i>Chrysallida ovata</i> Carp.
	<i>Chelyconus purpurascens</i> H.	417	<i>nodosa</i> Carp.
	and A. Adams.	418	<i>rotundata</i> Carp.
	<i>Conus comptus</i> Gould.	418	<i>oblonga</i> Carp.
	? <i>interruptus</i> Br. & S.	419	<i>communis</i> C. B. Ad.
403	<i>regalitatis</i> Sowb.		<i>Chemnitzia communis</i> C. B.
	? <i>C. achatinus</i> Mke.		Adams.
	? <i>purpurascens</i> (var.)	Dec. 1856.	
	<i>Chelyconus regalitatis</i> H. &	421	<i>telescopium</i> Carp.
404	<i>arenatus</i> Brug. [A. Ad.	422	<i>Reigeni</i> Carp.
404	<i>puncticulatus</i> Hwass.	422	<i>effusa</i> Carp.
	<i>Chelyconus puncticulatus</i>	423	<i>fasciata</i> Carp.
	H. and A. Adams.	423	<i>ovulum</i> Carp.
405	<i>gladiator</i> Brod.	424	<i>clathratula</i> C. B. Adams.
	<i>Rhizoconus gladiator</i> H. &		<i>Chemnitzia clathratula</i> C.
405	<i>nux</i> Brod. [A. Ad.	424	<i>convexa</i> Carp. [B. Ad.
	<i>Coronaxia nux</i> H. & A. Ad.	425	<i>Photis</i> Carp.
406	? <i>scalaris</i> Val.	425	<i>indentata</i> Carp.
406	—— (sp. ined.)	426	? <i>clausiliformis</i> Carp.
407	<i>Torinia</i> ? <i>variegata</i> Lam.	427	<i>Chemnitzia</i> ? <i>Panamensis</i>
	<i>Solarium variegatum</i> Lam.		C. B. Adams.
	<i>Trochus perspectiviunculus</i>	427	<i>C. B. Adamsi</i> Carp.
	Chemn.	428	<i>similis</i> C. B. Ad.
	<i>Euomphalus radiatus</i> Mke.	428	<i>aculeus</i> C. B. Ad.
408	? <i>granosa</i> Val.	428	<i>muricata</i> Carp.
409	<i>Obeliscus</i> ? <i>conicus</i> (jun.)	429	? <i>affinis</i> C. B. Ad.
	C. B. Adams.	429	<i>prolongata</i> Carp.

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430	Chemnitzia gibbosa <i>Carp.</i>	445	Cerithiopsis assimilata <i>C.</i>
430	—— (sp. ined. a.)		<i>B. Adams.</i>
430	—— (sp. ined. b.)		<i>Cerithium assimilatam</i> <i>C.</i>
430	—— (sp. ined. c.)		<i>B. Adams.</i>
431	—— (sp. ined. d.)	446	Scalaria hexagona <i>Sowb.</i>
431	gracillima <i>Carp.</i>		<i>Clathrus hexagonus</i> <i>H. & A.</i>
431	undata <i>Carp.</i>	446	suprastrata <i>Carp.</i> [Ad.
432	flavescens <i>Carp.</i>	447	—— (sp. ined. a.)
432	terebialis <i>Carp.</i>	447	—— (sp. ined. b.)
433	tenuilirata <i>Carp.</i>	447	raricostata <i>Carp.</i>
433	unifasciata <i>Carp.</i>	447	Circotrema funiculata <i>Car.</i>
434	Dunkeria paucilirata <i>Carp.</i>	448	Natica maroccana <i>Chemn.</i>
434	subangulata <i>Carp.</i>		<i>Nerita maroccana</i> <i>Chemn.</i>
435	cancellata <i>Carp.</i>		<i>marochiensis</i> <i>Gm.</i>
435	intermedia <i>Carp.</i>		<i>glauca</i> <i>Linn.</i>
436	? Eulimella obsoleta <i>Carp.</i>		<i>Natica marochiensis</i> <i>Rve.</i>
436	—— (sp. ined. a.)		<i>intermedia</i> <i>Phil.</i>
436	—— (sp. ined. b.)		<i>Poliana Sacchi.</i>
437	—— (sp. ined. c.)		<i>lurida</i> <i>Phil.</i>
437	—— (sp. ined. d.)		<i>unifasciata</i> <i>Lam.</i>
437	Aclis fusiformis <i>Carp.</i>		<i>Chemnitziana</i> <i>Pfr.</i>
438	tumens <i>Carp.</i>		<i>Chemnitzii</i> <i>Mke.</i>
438	Eulima ? hastata <i>Sowb.</i>		<i>Pritchardi</i> <i>Forb.</i>
438	—— (sp. ined. a.)		? <i>iosoma</i> <i>Mke.</i>
438	—— (sp. ined. b.)		<i>Neverita Chemnitzii</i> <i>H. &</i>
439	Leiostrea ? recta <i>C. B. A.</i>	450	—— (sp. ined.) [A. Ad.
	<i>Eulima recta</i> <i>C. B. Ad.</i>	451	Lunatia tenuilirata <i>Carp.</i>
439	? solitaria <i>C. B. Adams.</i>	451	—— (sp. ined. a.)
	<i>E. solitaria</i> <i>C. B. Adams.</i>	451	—— (sp. ined. b.)
439	—— (sp. ined. a.)	451	—— (sp. ined. c.)
440	—— (sp. ined. b.)	452	Polinices uber <i>Val.</i>
440	linearis <i>Carp.</i>		<i>Natica uber</i> <i>Val.</i>
440	? iota (var.) retexta.		? <i>alabaster</i> <i>Rve.</i>
441	? distorta (var.) yod.	453	Lamellaria —— (sp. ined. a.)
	<i>Melania distorta</i> <i>Phil.</i>	453	—— (sp. ined. b.)
	<i>E. distorta</i> <i>Desh.</i>	453	Ficula ventricosa <i>Sowb.</i>
442	Cerithiopsis tuberculoides		<i>Pyrula ventricosa</i> <i>Sowb.</i>
443	var. albonodosa. [Carp.		<i>Bulla decussata</i> <i>Wood.</i>
443	cerea <i>Carp.</i>		<i>Ficula decussata</i> <i>Rve.</i>
443	pupiformis <i>Carp.</i>	454	Argobuccinum nodosum
444	sorex <i>Carp.</i>		<i>Triton nodosum</i> <i>Mke.</i> [Ch.
444	convexa <i>Carp.</i>		<i>Murex argus</i> (var. b.) <i>Gm.</i>
			<i>T. Chemnitzii</i> <i>Gray.</i>
Jan. 1857.			<i>Fusus Wiegmanni</i> <i>Ant.</i>
445	Cerithiopsis decussata <i>Car.</i>		

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	<i>Lagena Wiegmanni</i> H. & A. Adams.	Feb. 1857.	
	<i>Cassidaria setosa</i> Hinds?	469	Olivella tergina Ducl.
	<i>T. perforatus</i> Conrad.		<i>Oliva tergina</i> Ducl.
456	Turbinella cæstus Br.	469	anazora Ducl.
	<i>Vasum cæstus</i> H. & A. Ad.		<i>Oliva anazora</i> Ducl.
	<i>Turbinella ardeola</i> Val.	470	? petiolita (var.) aureo- cincta.
Jan. 1857.			? <i>Oliva petiolita</i> Ducl.
457	Lathirus ceratus Gr.	470	inconspicua C. B. Adams.
	<i>Murex ceratus</i> Gray.		<i>Oliva inconspicua</i> C. B. A.
	<i>Turbinella cerata</i> Gray.	471	dama Mawe.
457	Leucozonina cingulata Lam.		<i>Voluta dama</i> Mawe.
	<i>Monoceros cingulatum</i> Lam.		<i>Oliva lineolata</i> Gray.
	<i>Buccinum cingulatum</i> Wood.		<i>purpurata</i> Swains.
	<i>Turbinella cingulata</i> Kien.		<i>gracilis</i> Ducl.
458	Fasciolaria princeps Sowb.	471	zonalis Lam. [Ad.
	<i>F. aurantiaca</i> Sowb.		<i>Oliva zonalis</i> Lam.
459	Mitra lens Mawe.	472	Agaronia testacea Lam.
	<i>Voluta lens</i> Wood.		<i>Oliva testacea</i> Lam.
	<i>Tiara foraminata</i> Swains.		<i>hiatula pars</i> Ducl.
	<i>M. Dupontii</i> Kien.		<i>Agaronia hiatula</i> H. & A. A.
461	Strigatella tristis Br.	474	Purpura patula Linn.
	<i>Mitra tristis</i> Br.		<i>Buccinum patulum</i> Linn.
	<i>amphorella</i> Carp.		<i>Le Pakel</i> Adams.
461	Marginella minor C. B. Ad.		<i>P. pansa</i> Gould.
	<i>Gibberula minor</i> H. & A. A.	475	columellaris Lam.
462	polita Carp.	476	muricata Gray.
462	margaritula Carp.		<i>Monoceros muricatum</i> Rve.
463	Oliva angulata Lam.		<i>P. cassidiformis</i> D'Orb.
	<i>Voluta incrassata</i> Dillw.		<i>truncata</i> Ducl.
	<i>Strephona incrassatus</i> H.	477	biserialis Blainv.
464	Melchersi Mke. [& A. A.		<i>P. bicostalis</i> Rve.
	<i>O. angulata</i> Carp.		<i>undata</i> Val.
465	intertincta ? Carp.		<i>hæmastoma</i> Mke.
466	? venulata Lam.		<i>consul</i> Mke.
	<i>O. araneosa</i> C. B. Ad.	479	triserialis Blainv.
	? <i>Julietta</i> Mke.		<i>P. speciosa</i> Rve.
	<i>reticularis</i> (var.) Rve.		<i>centiquadra</i> Val.
467	Duclosi Rve.		<i>Thalessa speciosa</i> H. & A.
467	Olivella undatella Lam.		Adams.
	<i>Oliva undatella</i> Lam.	480	triangularis Blainv.
	<i>Voluta tenebrosa</i> Wood.		<i>P. Carolensis</i> Rve. [Ad.
			<i>Tribulus Carolensis</i> H. & A.

[Carpenter, Mazatlan Shells.]

Page.		Page.	
481	Cuma kiosquiformis Ducl. <i>Purpura kiosquiformis</i> Duc. <i>scalariformis</i> D'Or — (sp. ined.) C.	496	<i>Phrontis xanthostoma</i> H. & Nassa tegula Ree. [A. Ad. 496 var. nodulifera Phil. [Ad. <i>Phrontis nodulifera</i> H. & A.
482	costata Blainv. [B. Ad. <i>P. costata</i> Blainv. <i>diadema</i> Lam.	497	(? Pagodus var.) acuta . 498 ——— (sp. ined. a.) 498 ——— (sp. ined. b.)
484	Rhizocheilus nux Ree. <i>Murex nux</i> Ree.	498	— (sp. ined. c.) 498 — (sp. ined. d.) 498 — (sp. ined. e.)
485	Vitularia salebrosa King. <i>Murex salebrosus</i> King. <i>Fusus salebrosus</i> Forbes. <i>Murex vitulinus</i> Gray.	498	— (sp. ined. e.) 498 ? gemmulosa C. B. Ad. <i>Niotha gemmulosa</i> H. & A.
487	Nitidella cribraria Lam. <i>Buccinum cribrarium</i> Lam. <i>Columbella cribraria</i> Sowb. <i>Mitrella cribraria</i> H. & A. A. <i>Voluta ocellata</i> Gmel. <i>Le</i> Barnet Adans. <i>B. parvulum</i> Dunk. <i>C. mitriformis</i> Br. & King. <i>guttata</i> Sowb.	499	? versicolor C. B. Ad. [A. <i>Uzita versicolor</i> H. & A. A. 499 crebristriata Carp. 499 ——— (sp. ined. f.) 500 ——— (sp. ined. g.) 500 ——— (sp. ined. h.) 500 ——— (sp. ined. i.)
488	— (sp. ined.)	500	Pyrula patula Br. and Sw. <i>Cyrtulus patulus</i> Hinds. <i>Cassidulus patulus</i> H. and A. Adams.
489	Columbella major Sowb. <i>C. strombiformis</i> (var.) <i>paytalida</i> Ducl. [Kien. ? <i>gibbosa</i> Val.	502	<i>P. melongena</i> (var.) Sowb. Fusus pallidus Br. & Sowb. <i>Pyrula lignaria</i> Ree. <i>F. turbinelloides</i> Ree. <i>lignarius</i> H. and A. Ad. <i>Neptunea pallida</i> H. & A. A.
490	strombiformis Lam. <i>Buccinum strombiforme</i> ? <i>C. gibbosa</i> Val. [Wood.	503	tumens Carp. 504 apertus Carp. 504 ——— ? (sp. ined. a.) 504 ——— ? (sp. ined. b.)
492	fuscata Sowb. <i>C. meleagris</i> Kien. <i>rustica</i> pars Sowb.	505	? Cominella — (sp. ined.) 505 Anachis scalarina Sowb. <i>Columbella scalarina</i> Sowb.
March, 1857.		506	costellata Br. and Sowb. <i>C. costellata</i> Br. & Sowb. var. pachyderma . 507 ——— (sp. ined.) 508 coronata Sowb. <i>Columbella coronata</i> Sowb.
493	cervinetta Carp.	509	? fulva Sowb. <i>C. fulva</i> Sowb.
493	cervinetta (var.) obso- leta .		
493	? Metula — (sp. ined. a.)		
494	? Metula — (sp. ined. b.)		
494	? Metula — (sp. ined. c.)		
494	? Metula — (sp. ined. d.)		
494	Nassa luteostoma Br. & S. <i>Buccinum luteostomum</i> Kie. <i>Nassa xanthostoma</i> Gray.		

[Carpenter, Mazatlan Shells.]

Page.		Page.	
509	Anachis nigrofusca <i>Carp.</i>	523	Phyllonotus nitidus <i>Br.</i>
509	serrata <i>Carp.</i>		<i>M. nitidus</i> <i>Br.</i>
510	pygmæa <i>Sowb.</i>	523	brassica <i>Lam.</i>
	<i>C. pygmæa</i> <i>Sowb.</i>		<i>M. brassica</i> <i>Lam.</i>
510	Gaskoini <i>Carp.</i>		<i>ducalis</i> <i>Br.</i>
511	rufotincta <i>Carp.</i>	524	bicolor <i>Val.</i>
512	albonodosa <i>Carp.</i>		<i>M. bicolor</i> <i>Val.</i>
512	—— (sp. ined. <i>a.</i>)		<i>erythrostomus</i> <i>Swains.</i>
512	—— (sp. ined. <i>b.</i>)		<i>regius</i> <i>Sch. and Wagn.</i>
513	Strombina maculosa <i>Sowb.</i>		<i>hippocastanum</i> <i>Phil.</i>
	<i>Columbella maculosa</i> <i>Sowb.</i>	524	regius <i>Swains.</i>
513	—— ? (sp. ined.)		<i>M. regius</i> <i>Swains.</i>
514	Pisania insignis <i>Rve.</i> [Val.		<i>tricolor</i> <i>Val.</i>
	<i>Buccinum mutabile</i> (pars.)	524	princeps <i>Br.</i>
	<i>insignis</i> <i>Rve.</i>		<i>M. princeps</i> <i>Br.</i>
	<i>Tritonidia insignis</i> <i>H. & A. A.</i>	526	Muricidea ? lappa <i>Br.</i>
515	(? Pagodus [var.]) æqui-		<i>Murex lappa</i> <i>Br.</i>
	lirata.	526	dubia <i>Swains.</i>
515	gemmata <i>Rve.</i>		<i>Murex dubius</i> <i>Swains.</i>
	<i>B. gemmatum</i> <i>Rve.</i>		<i>aculeatus</i> <i>Wood.</i>
	<i>gemmulatum</i> <i>Mke.</i>	527	? erinaceoides (var.) in-
	<i>undosum</i> <i>Kien.</i> [A. Ad.		dentata.
	<i>Tritonidea gemmatus</i> <i>H. &</i>		<i>Murex erinaceoides</i> <i>Val.</i>
	<i>B. mutabile</i> (pars.) <i>Val.</i>	528	Murex —— (sp. ined.)
517	sanguinolenta <i>Ducl.</i>	528	Muricidea pauxillus <i>A. Ad.</i>
	<i>Purpura sanguinolenta</i> <i>Du.</i>		<i>Murex pauxillus</i> <i>A. Ad.</i>
	<i>B. sanguinolentum</i> <i>Mke.</i>		(ADDITIONAL SPECIES)
	<i>Pollia hæmastoma</i> <i>Gr.</i>	529	? Naranio scobina <i>Carp.</i>
	<i>B. hæmastoma</i> <i>Rve.</i>	529	Mya —— (sp. ined.)
	<i>Janelii</i> <i>Val.</i>	530	? Corbula —— (sp. ined. <i>b.</i>)
	<i>Tritonium verrucosum</i> <i>Mke.</i>	530	Sphænia —— (sp. ined.)
	<i>Tritonidea sanguinolentus</i>	530	? —— (sp. ined.)
518	ringens <i>Rve.</i> [H. & A. Ad.	530	? Lyonsia —— (sp. ined.)
	<i>B. ringens</i> <i>Rve.</i>	531	Tellina —— (sp. ined. <i>c.</i>)
	<i>Tritonidea ringens</i> <i>H. & A. A.</i>	531	Cardium rotundatum <i>Carp.</i>
518	Murex plicatus <i>Sowb.</i>	531	Lasea —— (sp. ined.)
	<i>M. unidentatus</i> <i>Mke.</i>	531	? Montacuta chalconica
519	? recurvirostris (var.)		<i>Carp.</i>
	lividus.	532	Arca —— (sp. ined. <i>b.</i>)
	<i>M. recurvirostris</i> <i>Br.</i>	532	Pecten —— (sp. ined. <i>a.</i>)
	<i>messorius</i> <i>Mke.</i>	532	—— (sp. ined. <i>b.</i>)
521	Phyllonotus nigrinus <i>Meus.</i>	533	Smaragdinella thecaphora
	<i>Murex nigrinus</i> <i>Phil.</i>		<i>Nutt.</i>
	<i>ambiguus</i> <i>Rve.</i>		

APPENDIX.

[Carpenter, Mazatlan Shells.]

Page.		Page.	
534	<i>Corbula alba Phil.</i>	535	<i>Siphonaria Lecanium Phil.</i>
534	<i>Tellina cicercula Phil.</i>	535	<i>Trochus disculus Phil.</i>
534	<i>lenticula Phil.</i>	535	<i>Buccinum nucleolus Phil.</i>
534	<i>dichotoma Phil.</i>	535	<i>Terebra fulgurata Phil.</i>
534	<i>ervilia Phil.</i>	535	<i>Columbella pallida Phil.</i>
534	<i>Diplodonta obliqua Phil.</i>	535	<i>spadicea Phil.</i>
534	<i>Lucina cancellaris Phil.</i>	535	<i>tæniata Phil.</i>
535	<i>Patella pediculus Phil.</i>	536	<i>Dentalium hyalinum Phil.</i>

[Here follows a copy of Menke's List of Mazatlan Shells, from Zeit. F. Mal. 1847-51. Descriptions are given of the following.—W. G. B.]

Page.		Page.	
536	<i>Natica iostoma Mke.</i>	June, 1837.	
536	<i>Buccinum gilvum Mke.</i>	541	<i>Planaxis acutus Mke.</i>
537	<i>Erato columbella Mke.</i>	541	<i>obsoletus Mke.</i>
537	<i>Crepidula costata Sowb.</i>	541	<i>Euomphalus radiatus Mke.</i>
537	<i>hepatica Desh.</i>	541	<i>Trochus (Calcar) Mel-</i>
538	<i>uncata Mke.</i>		<i>chersi Mke.</i>
538	<i>Fissurella chlorotrema</i>	541	<i>versicolor Mke.</i>
538	<i>humilis Mke.</i> [Mke.]	542	<i>ligulatus Mke.</i>
538	<i>gemmata Mke.</i>	542	<i>Rissoa stricta Mke.</i> [Mke.]
538	<i>Acmæa mitella Mke.</i>	542	<i>Cerithium interruptum</i>
538	<i>Mytilus spatula Mke.</i>	543	<i>Columbella nasuta Mke.</i>
539	<i>Modiola semilævis Mke.</i>	543	<i>Terpsichore Sowb.</i>
539	<i>Cytherea semifulva Mke.</i>	544	<i>Pleurotoma Melchersi</i>
539	<i>chionæa Mke.</i>	544	<i>Oliva Melchersi Mke.</i> [Mke.]
540	<i>Bulla Adamsi Mke.</i>	545	<i>Crepidula striolata Mke.</i>
540	<i>Natica ovum Mke.</i>	546	<i>Acmæa mutabilis Mke.</i>
540	<i>Nerita funiculata Mke.</i>	546	<i>fascicularis Mke.</i>
		546	<i>mesoleuca Mke.</i>

ADDITIONS AND CORRECTIONS.

Page.	
547	To p. 2 <i>et passim Imperator</i> = Uvanilla.
547	" 7 <i>Spondylus Lamarckii</i> = S. calcifer.
547	" 17 <i>Petricola sinuosa</i> Conrad = P. robusta.
547	" 21 <i>Corbula bicarinata</i> = C. alba?
547	" 25 Tyleria fragilis II. and <i>A. Adams.</i>
548	" 26 <i>Seneca proxima</i> = S. flavescens Gould.
548	" 31 <i>Sanguinolaria purpurea</i> = S. miniata Gould (Tellina.)

Page.

548	To p. 39	<i>Tellina Burnett</i> = Tellidora .
548	" 43	<i>Donax culminatus</i> = D. rostratus C. B. Adams.
548	" 44	Donax flexuosus Gould (sp. distinct.)
548	" 50	<i>Lutraria ventricosa</i> = Mactra exoleta .
549	" 52	<i>Gnathodon trigona</i> Pet. = G. mendicus Gould.
549	" 58	<i>Cytherea aquilulera</i> Desh. = Trigona argentina .
549	" 80	? <i>Venus succincta</i> Val. = Anomalocardia subimbri- cata .
549	" 90	<i>Hipponix tessellatus</i> = H. serratus .
550	" 135	<i>Arca trapezia</i> = A. tuberculosa .
550	" 149	<i>Margaritiphora Mazatlanica</i> = M. fimbriata Dunk.
550	" 159	Ostrea palmula (sp. distinct.)
550	" 169	Naranio — (sp. ined.)
550	" 182	<i>Siphonaria aquilulata</i> = S. Lecanium .
551	" 220	<i>Fissurella mus</i> = Glyphis inæqualis .
552	" 358	<i>Rissoa lirata</i> = Barleeia lirata .
552	" 388	<i>Terebra fulgurata</i> = Euryta fulgurata .

[Other important corrections and additions have not been noticed by me. They must be consulted by the student. Indeed, it has been impossible to quote this work as exactly as the others of my Bibliography, owing to the thoroughness of the references, comparisons, &c.—W. G. B.]

Agassiz.—Ueber die Gattungen unter den nordamericanischen Najaden. Briefliche Mittheilung and en Herausgeber in: Archiv. f. Naturg. 18 Jahrg. 1852. 1 Bd., p. 41.

Page.	§ 1.	Page.	§ 2.
43	Dysnomia Ag.	47	Micromya Ag.
43	Scalenaria Raf.	47	Crypogenia Ag.
44	Truncilla Raf.	48	Plagiola Raf.
44	Lampsilis Raf.	48	Orthonymus Ag.
44	Canthyrina Swains.	48	Tritogonia Raf.
45	Eurynia Raf.	48	Quadrula Raf.
45	Metaptera Raf.	48	Rotundaria Raf.
46	Alasmodonta Say.	48	Complanaria Swains.
46	Obovaria Raf.	49	Pleurobema Raf.
		49	Uniopsis Swains.
		49	Margaritana Sch.
		50	Hemilastena Raf.

[The above is a very imperfect quotation of the paper, which must be consulted by the student.—W. G. B.]

Agassiz, Siebold.—Ueber das Wassergefäßsystem der Mollusken. Eine briefliche Mittheilung von L. AGASSIZ an C. TH. v. SIEBOLD. (From Zeits. für Wissenschaftliche Zoologie, 7 Band, p. 176. Leipzig, 1856.)

Sullivan.—An Alphabetical Catalogue of Shells, Fossils, Minerals, and Zoophytes, in the cabinet of JOSEPH SULLIVAN, Curator of the Philosophical and Historical Society of Ohio. Columbus, Ohio, 1838. (8vo. pp. 38.)

[The only species of Shells for which the locality is given are the following.—W. G. B.]

Page.

9	Unio alatus Say.	Scioto river.
9	catillus Conrad.	Scioto river.
9	circulus Lea.	Scioto river.
9	coccineus Hildreth.	Scioto river.
9	Cooperianus Lea.	Scioto river.
9	cornutus Barnes.	Scioto river.
9	crassus Say.	Scioto river.
9	cylindricus Say.	Scioto river.
9	dehiscens Say.	Scioto river.
9	dolabraformis Lea.	Scioto river.
9	elegans Lea.	Scioto river.
9	ellipsis Lea.	Scioto river.
9	foliatus Hildreth.	Scioto river.
9	gibbosus Barnes.	Scioto river.
9	glans Lea.	Scioto river.
9	Gouldianus Ward.	Scioto river.
9	Hildrethianus Lea.	Ohio river.
9	iris Lea.	Scioto river.
9	irroratus Lea.	Scioto river.
10	lachrymosus Lea.	Scioto river.
10	lapillus Say.	Scioto river.
10	lævissimus Lea.	Scioto river.
10	lens Lea.	Scioto river.
10	luteolus Lam.	Scioto river.
10	monodonta Say.	Ohio and Scioto rivers.
10	multiplicatus Lea.	Scioto.
10	multiradiatus Lea.	Scioto.
10	mytiloides Raf.	Scioto.
10	nasutus Say.	Walhonding.
10	nexus Say.	Alabama.

10	Unio obliquus <i>Lam.</i>	Scioto.
10	occidens <i>Lea.</i>	Scioto.
10	ochraceus <i>Say.</i>	Eastern waters.
10	ovatus.	Scioto.
10	parvus.	Scioto.
10	patulus.	Scioto.
10	penatus <i>Conrad.</i>	Alabama.
10	perdix <i>Lea.</i>	Alabama.
10	perplexus.	Scioto river.
10	pileus <i>Lea.</i>	Ohio.
10	plicatus.	Scioto.
10	purpureus.	Scioto.
10	pustulatus <i>Lea.</i>	Scioto.
10	pustulosus <i>Lea.</i>	Scioto.
10	pyramidatus <i>Lea.</i>	Scioto.
10	radiatus <i>Lea.</i>	Scioto.
10	Rangianus <i>Lea.</i>	Scioto.
10	rectus <i>Lam.</i>	Scioto.
10	retusus <i>Lam.</i>	Scioto.
10	ridibundus <i>Say.</i>	Ohio river.
10	rubiginosus <i>Lea.</i>	Scioto.
10	solida <i>Lea.</i>	Scioto.
10	tenuissimus <i>Lea.</i>	Scioto river.
10	triangularis <i>Say (?)</i>	Scioto.
10	trigonus.	Scioto.
10	tuberculatus.	Scioto.
10	undulatus <i>Barnes.</i>	Scioto.
11	verrucosus.	Scioto.
11	Alasmodonta calceola <i>Lea.</i>	Scioto river.
11	Anodonta incerta <i>Lea.</i>	Scioto river.

PART I.

AMERICAN AUTHORS.

B.—WRITINGS ON FOREIGN SPECIES.



BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY.

Bingley.—Useful Knowledge; or a Familiar and Explanatory Account of the various Productions of Nature, &c. &c., illustrated with numerous figures, &c.: by the Rev. WILLIAM BINGLEY, A. M., F. L. S., &c. In three volumes. Vol. iii, Animals. Philadelphia, 1818.

Pa.	Pl.	Fig.		
292			<i>Sepia officinalis.</i>	Europe.
			<i>Mya margaritifera.</i>	Arctic Circle.
294			<i>Mytilus margaritiferus.</i>	America and India.
296	v	79	<i>edulis.</i>	Indian Seas, &c.
297	v	77	<i>Ostrea edulis.</i>	Indian Seas, &c.
299	v	78	<i>Pecten maximus.</i>	
299	v	80	<i>Cardium edule.</i>	England, &c.
300			<i>Pinna nobilis.</i>	Mediterranean, &c.
301			<i>Helix pomatia.</i>	Europe.

Barnes.—Descriptions of five species of Chiton: by D. W. BARNES, M. A. (In Silliman's Journal, o. s., vol. vii, No. 1, p. 69, date of title, 1824.)

Pa.	Pl.	Fig.		
70			<i>Chiton Magellanicus</i> Chemn.	Coast of Peru.
70	iii	1	<i>striatus</i> Barnes.	Coast of Peru.
70	iii	2	<i>Peruvianus</i> Lam.	Coast of Peru.
			<i>C. crinitus</i> Penn.	
71	iii	3	<i>niger</i> Barnes.	Coast of Peru.
71	iii	4	<i>echinatus</i> Barnes.	Coast of Peru.

Ware.—Account of the Hybernation of the Snail (*Cochlea pomatia*) and of some other circumstances connected with the Physiology of that animal. Translated and abridged from “Mem. Phys. sur le Colimaçon, par B. Gaspard, M. D.” (Magendie, Journ. de Phys. Exp. et Path.): by J. W. (JOHN WARE?) (From the Boston Journal of Philosophy and the Arts, vol. i, pp. 570–578. Boston, 1824.)

Eaton.—The Zoological Text-Book: by AMOS EATON. Albany, 1826.

[Many foreign species are described in this work. They have already been given on pp. 415–417.—W. G. B.]

Green.—New species of *Achatina*, with Remarks on the Ti, or the *Dracena Terminalis* of the Sandwich Islands: by JACOB GREEN, A. M. (From Contributions to the Maclurian Lyceum of the Arts and Sciences, vol. i, No. 2. Philadelphia, July, 1827.)

Pa.	Pl.	Fig.	
47	iv	1–4	<i>Achatina Stewartii</i> Green.
49	iv	5	<i>Oahuensis</i> Green.

Green.—Remarks on *Achatina Stewartii*: by J. GREEN, &c. (From same as last, vol. i, No. 3, p. 66. Jan. 1829.)

Page.

87 *Achatina lugubris*.
Helix lugubris Ch.
lorata Fer.

Helix luteolata Fer.
vulpina Fer.
Achatina Stewartii Green.

Green.—Notes of a Naturalist. Remarks upon some of the Marine Animals which inhabit the North Atlantic Ocean: by JACOB GREEN, M. D. (In Doughty's Cabinet of Natural History, vol. i, 251. Philadelphia, 1830.)

Page.

251 *Cleodora lanceolata* Per. and Le S.
 252 *Velela Atlantica* Green = *V. mutica*?
 252 *Janthina globosa*?

Rafinesque.—Two new bivalve fluviatile Shells of South America: by C. S. RAFINESQUE. (From the Atlantic Journal and Friend of Knowledge, No. 4. Philadelphia, 1832.)

Page.

154	Anodonta aperta Raf.	River Parana above Buenos Ayres.
154	paphos Raf.	River Parana above Buenos Ayres.

Rafinesque.—On three new genera of Land Shells from Buenos Ayres, in South America: by C. S. RAFINESQUE. (From same as last, No. 5, p. 165. 1833.)

Page.

165 .	Simphalomphix Raf. (n. g.)	
165	bonariensis Raf.	Buenos Ayres.
165	Stegomphix Raf. (n. g.)	
165	elegans (Cyclostoma) Raf.	Buenos Ayres.
165	Diplicaria Raf. (n. g.)	
165	bonariensis Raf.	Buenos Ayres.

Rafinesque.—On five new Fresh-Water Shells of Bengal and Assam, in Asia: by C. S. RAFINESQUE. (From same as last.)

Page.

165	Planorbis albescens Raf.	Page.	166	Melania tessula Raf.
165	Paludina vitula Raf.		166	costula Raf. Ganges.
165	fragilis Raf.			

Say.—Catalogue of Exotic Shells, &c., vide p. 274.

[I do not quote this list, as it is not strictly a work on descriptive Conchology.—W. G. B.]

Coates.—Reminiscences of a Voyage to India: by REYNELL COATES, M. D.

[Familiar notices are given of Mollusca. First published in the "Friend." Also published in Philadelphia, 1833, together with Godman's "Rambles of a Naturalist."—W. G. B.]

Hunt.—The Cabinet of Nature and Philosophy. Book the First—The Cabinet of Shells: by WILLIAM HUNT, M. D. With four plates. Boston and New York, 1833.

[This work contains descriptions of Classes, Orders, and Genera, with a figure of each genus, and a glossary. There are no descriptions of species.—W. G. B.]

Jay.—Catalogue, &c. &c.: by J. C. JAY, M. D. Vide pp. 46, 53, 64, 172, 212, 214, 215. Second edition. 1836.

[The American species are already given. The various editions must be consulted by the student for the numerous foreign species and their synonymy. Descriptions of the following are given.—W. G. B.]

Pa.	Pl.	Fig.		
81	i	1	<i>Pupa ringens Jay.</i>	Brazil.
81	i	4	<i>egregia Jay.</i>	Brazil.
81	i	2	<i>Megaspira Ruschenbergiana Lea.</i>	Brazil.
82	i	3	<i>Bulimus melanostomus.</i>	Brazil?
			<i>B. Dufresnii Wood's Supplement.</i>	
83	ii	5	<i>Cerithium magnum Jay.</i>	
83	ii	6	<i>Ranella.</i>	
85	iii	7	<i>Ampullaria angulata Jay.</i>	Mexico.
85	iii	8	<i>ochracea Jay.</i>	Spanish Main.
85	iii	9	<i>Helix speciosa Jay.</i>	
87	iv	10	<i>Natica imperforata Jay.</i>	
87	iv	11	<i>Neritina papillosa Jay.</i>	

Jay.—The same. Third edition. (See p. 218.)

Pa.	Pl.	Fig.		
111	i	1	<i>Bulimus cinctus Jay.</i>	Calcutta.
111	i	2, 3	<i>Turbo rotelliformis Jay.</i>	South Seas.
112	i	4	<i>Ampullaria Brownii Jay.</i>	Amazon.
112	i	5	<i>Storeria Jay.</i>	Amazon.
112	i	6, 7	<i>Helix planorbis Jay.</i>	Togobo Island.
113	i	12, 13	<i>Nucula Eightsii Couch.</i>	N. S. Shetland.
113	i	14, 15	<i>Venerupis Peruviana Jay.</i>	Peru.
113	i	16	<i>Fissurella nigrita? Sowb.</i>	Tiger Bay.
114	i	21	<i>Helix denticulata Jay.</i>	
115	ii	5	<i>Cerithium marmoratum Quoy & Guim.</i>	New Holland?
115	ii	6	<i>Ranella pulchra Gray.</i>	East Indies.
			<i>Biplex perca Perry.</i>	

Pa.	Pl.	Fig.		
116	iii	8	<i>Ampullaria ochracea</i> Jay.	Spanish Main.
116	iii	9	<i>Helix speciosa</i> Jay.	
117	iv	10	<i>Natica fluctuata</i> Sowb.	
			<i>N. imperforata</i> Jay.	
117	iv	11	<i>Neritina granosa</i> Sowb.	Sandwich Isl'ds.
			<i>N. papillosa</i> Jay.	
119	vi	1	<i>Bulimus ustulatus</i> Jay.	
119	vi	2	<i>aurora</i> Jay.	
119	vi	3	<i>Achatina bicolor</i> Jay.	
120	vi	4	<i>Bulimus virgatus</i> Jay.	
120	vi	5	<i>porraceus</i> Jay.	
120	vi	6, 7	<i>Pandora striata</i> Quoy & Guim.	New Zealand.
121	vii	1	<i>Bulimus tristis</i> Jay.	Zanzibar.
121	vii	2, 3	<i>Couus rhododendron</i> Couth.	Australasia.
122	vii	4, 5	<i>Cyclostoma Cumingii</i> Sowb.	Tumaco Island.
122	vii	6	<i>Bulimus dubiosus</i> Jay.	Brazil?
122	vii	7, 8	<i>Cyclostoma multicarinata</i> Jay.	
122	vii	9, 10	<i>maculosa</i> Jay.	
123	vii	12, 13	<i>multilineata</i> Jay.	
124	viii, ix		<i>Dolium melanostomum</i> Jay.	Friendly Isl'ds.
126	x	1, 2	<i>Voluta armata</i> Lam.	

Ruschenberger.—A Voyage Round the World, including an Embassy to Muscat and Siam, in 1835-7: by W. S. W. RUSCHENBERGER, M. D., U. S. N. Philadelphia, 1838.

Page.

21	Notes on <i>Janthina fragilis</i> , &c.
447	<i>Tridacna gigas</i> &c.

Dr. J. C. Jay.—Reports on the Shells and Minerals presented by Dr. Brickerhoff to the New York Lyceum of Natural History. (From Silliman's Journal, o. s., vol. xxxviii, No. 1, pp. 198-201. Oct.-Dec., 1839.)

[A catalogue of species is given, without descriptions or localities. The paper is quoted by Carus and Engelmann, under the authorship of Brickerhoff.—W. G. B.]

Couthouy.—Vide p. 64.

Page.

383	<i>Thracia pubescens</i> Leach, &c.	<i>Mya pubescens</i> Pult.
	<i>Mya declivis</i> Pennant, &c.	<i>Thracia pubescens</i> Blainv.
	<i>Anatina declivis</i> Brown, &c.	<i>Anatina myalis</i> Lam.

Page.		Page.	
383	Thracia convexa Couthouy. <i>Mya declivis</i> Pennant. <i>convexa</i> Wood. <i>Anatina convexa</i> Turt. <i>Ligula distorta</i> Mont?	383	Thracia phaseolina Kien. <i>Amphidesma phaseolina</i> La.
383	corbuloides Desh. §c.	383	similis Couth. Rio Janeiro.
383	plicata Desh. §c.	384	Periploma trapezoides Des. <i>P. inaequalis</i> Schum. <i>Anatina trapezoida</i> Lam. <i>Ostcodesma trapezoidalis</i> Bl.

Rafinesque.—On the three genera of Cephalopodes—*Ocythoe*, *Todarus* and *Anisoctus*. From the Good Book and Amenities of Nature; or Annals of Historical and Natural Sciences: by C. S. RAFINESQUE, A. M., Ph. D. Philadelphia, 1840.

Notes on—

Page.		Page.	
63	Ocythoe Raf.		<i>Loligo todarus</i> Raf.
63	Todarus Raf.	65	<i>Canopus</i> Raf. = Anisoctus Raf.
63	Anisoctus Raf.	65	Anisoctus punctatus Raf.
63	Ocythoe tuberculata Raf.	65	bicolor Raf.
64	Todarus argo Raf. Mediterranean Sea.		

[References are made to figures, but I find no plates in the copy belonging to the Philadelphia Academy.—W. G. B.]

Adams.—Catalogue of the genera and species of Recent Shells in the collection of C. B. ADAMS, A. M.

[The American species described in this Catalogue have already been given on page 325. I do not quote the foreign species, as no synonyms or descriptions are given, and rarely any particular locality.—W. G. B.]

Adams.—Notice of a fractured and repaired *Argonauta argo*: by C. B. ADAMS, Prof. &c. (From Silliman's Journal, n. s., vol. vi, p. 137. July, 1848.)

Hancock.—On the boring of Mollusca into Rocks and on the removal of Portions of their Shells: by A. HANCOCK. (Copied from Brit. Ass. Athen., No. 1086. In American Journ. Sc., n. s., vol. vii, p. 288. March, 1849.)

Adams.—Monograph of *Stoastoma*, a new genus of new operculated Land Shells: by C. B. ADAMS, A. M. Amherst, Mass. September, 1849.

Page.		Page.	
3	<i>Stoastoma Ad.</i>	10	<i>Chittyanum Ad.</i> Jamaica.
5	<i>Gouldianum Ad.</i> Jamaica.	11	<i>pisum Ad.</i> Jamaica.
6	<i>Blandianum Ad.</i> Jamaica.	12	<i>Lindsleyanum Ad.</i> Jamaica.
7	<i>Fadyenianum Ad.</i> Jamaica.	13	<i>Redfieldianum Ad.</i> Jamaica.
8	<i>Pfeifferianum Ad.</i> Jamaica.	14	<i>Jayanum Ad.</i> Jamaica.
9	<i>Cumingianum Ad.</i> Jamaica.	15	<i>Leanum Ad.</i> Jamaica.

Adams.—Monograph of *Vitrinella*, a new genus of new species of Turbinidæ: by C. B. ADAMS. Amherst, Mass. Feb. 1850.

Page.

3	<i>Vitrinella Adams.</i>	
5	<i>hyalina Adams.</i>	Port Royal, Jamaica.
6	<i>interrupta Adams.</i>	Port Royal, Jamaica.
7	<i>megastoma Adams.</i>	Port Royal, Jamaica.
8	<i>tincta Adams.</i>	Port Royal, Jamaica.
9	<i>helicoidea Adams.</i>	Port Royal, Jamaica.

Adams.—Remarks on the Distribution of the Testaceous Mollusca of Jamaica: by Prof. C. B. ADAMS. (From American Association for the Advancement of Science, second meeting, p. 147. Boston, 1850.)

Redfield.—Catalogue of Operculated Land Shells in the collection of JOHN H. REDFIELD. New York, July 1st, 1850, and

Redfield.—Catalogue of Marginellidæ in the collection of JOHN H. REDFIELD. January 1st, 1851.

[No descriptions being given, I do not repeat these Catalogues.—W. G. B.]

Caillaud.—On the perforation of rocks by *Pholades*: by M. F. CAILLAUD. (From American Journal of Science, n. s., vol. xiii, p. 287. March, 1852. Notice of a paper in *Comptes Rendus*, November 24, 1851, p. 572.)

Adams, Chitty, Bland.—Contributions to Conchology.
Conducted by C. B. ADAMS, Prof., &c. Vol. i. New York,
Oct. 1849—Nov. 1852.

No. 1.
Sept. 1849.
Page.

- 1 Descriptions of forty-four supposed new species and varieties of Oper-
culated Land Shells from Jamaica: by Prof. C. B. ADAMS.

	Page.
1 Cyclostoma Chittyi <i>Ad.</i>	
1 spinulosum <i>Ad.</i>	9 Cyclostoma ignilabre <i>Ad.</i>
2 aculeosum <i>Ad.</i>	9 pisum <i>Ad.</i>
2 amabile <i>Ad.</i>	9 hyacinthinum <i>Ad.</i>
3 amandum <i>Ad.</i>	10 Redfieldianum <i>Ad.</i>
3 Blandianum <i>Ad.</i>	10 tectilabre <i>Ad.</i>
3 variabile <i>Ad.</i>	10 armatum <i>Ad.</i>
4 concentricum <i>Ad.</i>	11 muticum <i>Ad.</i>
4 serriferum <i>Ad.</i>	11 fecundum <i>Ad.</i>
4 decussatulum <i>Ad.</i>	11 var. distinctum <i>Ad.</i>
4 mirandum <i>Ad.</i>	11 aurora <i>Ad.</i>
5 moribundum <i>Ad.</i>	12 mordax <i>Ad.</i>
5 intermedium <i>Ad.</i>	12 quinque-fasciatum <i>Ad.</i>
5 monstrosus <i>Ad.</i>	12 crenulosum <i>Ad.</i>
6 Wilkinsonii <i>Ad.</i>	13 pauperatum <i>Ad.</i>
6 avena <i>Ad.</i>	13 Helicina palliata <i>Ad.</i>
6 modestum <i>Ad.</i>	13 Hollandi <i>Ad.</i>
7 solidum <i>Ad.</i>	13 macilenta <i>Ad.</i>
7 Augustæ <i>Ad.</i>	13 albolabris <i>Ad.</i>
8 proximum <i>Ad.</i>	14 citrino-labris <i>Ad.</i>
8 Newcombianum <i>Ad.</i>	14 megastoma <i>Ad.</i>
8 nitens <i>Ad.</i>	14 Josephinæ (Trochatella).
8 tenuistriatum <i>Ad.</i>	14 tenuis (Trochatella).

- 15 Catalogue of Operculated Land Shells which inhabit Jamaica.

15 Cyclostoma pulcrum <i>Wood.</i>	15 Cyclostoma Blandianum
15 fimbriatulum <i>Sowb.</i>	15 lincinellum <i>Lam.</i> [<i>Ad.</i>
15 Chittyi <i>Ad.</i>	15 variabile <i>Ad.</i>
15 aculeosum <i>Ad.</i>	15 concentricum <i>Ad.</i>
15 spinulosum <i>Ad.</i>	15 Grayanum <i>Ad.</i>
15 amandum <i>Ad.</i>	15 serriferum <i>Ad.</i>
15 Hillianum <i>Ad.</i>	15 pulchrius <i>Ad.</i>
15 amabile <i>Ad.</i>	15 articulatum <i>Sowb.</i>
15 scabriculum <i>Sowb.</i>	15 decussatulum <i>Ad.</i>
15 lincinum <i>Linn.</i>	15 mirandum <i>Ad.</i>
15 Ilma <i>Ad.</i>	15 moribundum <i>Ad.</i>

[Contributions to Conchology.]

Page.		Page.	
15	<i>Cyclostoma intermedium</i>	16	<i>Cyclostoma asperulum</i> Sb.
15	<i>monstrosum</i> Ad. [Ad.	16	<i>Helicina palliata</i> Ad.
15	<i>Wilkinsonii</i> Ad.	16	<i>Brownii</i> Gray.
15	<i>avena</i> Ad.	16	<i>Hollandi</i> Ad.
15	<i>modestum</i> Ad.	16	<i>macilentia</i> Ad.
15	<i>ambiguum</i> Lam.	16	<i>maxima</i> Sowb.
15	<i>thysanoraphe</i> Sowb.	16	<i>albolabris</i> Ad.
15	<i>pictum</i> Humph.	16	<i>citrino-labris</i> Ad.
15	<i>solidum</i> Ad.	16	<i>solitaria</i> Ad.
15	<i>labeo</i> Lam.	16	<i>affinis</i> Ad.
15	<i>Augustæ</i> Ad.	16	<i>megastoma</i> Ad.
15	<i>fascia</i> Gray.	16	<i>Gossei</i> Pfr.
15	<i>proximum</i> Ad.	16	<i>Adamsiana</i> Pfr.
15	<i>Newcombianum</i> Ad.	16	<i>depressa</i> Gray.
15	<i>nitens</i> Ad.	16	<i>lineata</i> Ad.
15	<i>xanthostoma</i> Sowb.	16	<i>neritella</i> Lam.
15	<i>tenuistriatum</i> Ad.	16	<i>aurantia</i> Gray.
15	<i>ignilabre</i> Ad.	16	<i>Jamaicensis</i> Sowb.
15	<i>pisum</i> Ad.	16	<i>costata</i> Sowb.
15	<i>Bronnii</i> Ad.	16	<i>Trochatella Tankervillei</i>
15	<i>fuscolineatum</i> Ad.	16	<i>pulchella</i> Gray. [Gray.
15	<i>album</i> Lam.	16	<i>Grayana</i> Pfr.
15	<i>hyacinthinum</i> Ad.	16	<i>Josephinæ</i> Ad.
15	<i>Banksianum</i> Sowb.	16	<i>tennis</i> Ad.
15	<i>Redfieldianum</i> Ad.	16	<i>Lucidella aureola</i> Gray.
15	<i>testilabre</i> Ad.	16	<i>Stoastoma Gouldianum</i>
15	<i>pauperatum</i> Ad.	16	<i>Blandianum</i> Ad. [Ad.
15	<i>crenulosum</i> Ad.	16	<i>Fadyenianum</i> Ad.
15	<i>quinquefasciatum</i> Ad.	16	<i>Pfeifferianum</i> Ad.
16	<i>Sauliæ</i> Sowb.	16	<i>Cumingianum</i> Ad.
16	<i>mordax</i> Ad.	16	<i>Chittyianum</i> Ad.
16	<i>maritimum</i> Ad.	16	<i>pisum</i> Ad.
16	<i>aurora</i> Ad.	16	<i>Lindsleyanum</i> Ad.
16	<i>fecundum</i> Ad.	16	<i>Redfieldianum</i> Ad.
16	<i>Adamsi</i> Pfr.	16	<i>Jayanum</i> Ad.
16	<i>muticum</i> Ad.	16	<i>Leanum</i> Ad.
16	<i>armatum</i> Ad.	16	<i>Truncatella costata</i> Pfr.
16	<i>Duffianum</i> Ad.	16	<i>Adamsi</i> Pfr.
16	<i>corrugatum</i> Sowb.	16	<i>succinea</i> Ad.
16	<i>Jamaicense</i> Sowb.		

[Contributions to Conchology.]

Page.		Page.	
37	<i>Helix inconspicua</i> Ad.	38	<i>Pupa exilis</i> Ad.
37	<i>Pupa Jamaicensis</i> Ad.	38	<i>Succinea latior</i> Ad.
37	<i>lata</i> Ad.	38	<i>angustior</i> Ad.
37	<i>hexodon</i> Ad.		
39	Catalogue of species and varieties of <i>Helicidæ</i> which inhabit Jamaica.		
39	<i>Geomelania Jamaicensis</i>	39	<i>Cylindrella rubra</i> Ad.
39	<i>minor</i> Ad. [Pfr.	39	<i>Dunkeri</i> Pfr.
39	<i>expansa</i> Ad.	39	<i>similis</i> Ad.
39	<i>elegans</i> Ad.	39	<i>tenella</i> Ad.
39	<i>Cylindrella pygmæa</i> Ad.	39	<i>tenera</i> Ad.
39	<i>Beardsleana</i> Ad.	39	<i>Achatina ligata</i> Ad.
39	<i>gracilis</i> Wood.	39	<i>Jamaicensis</i> Pfr.
39	<i>elongata</i> Chemn.	39	<i>procera</i> Ad.
39	<i>Agnesiana</i> Ad.	39	<i>Griffithii</i> Ad.
39	<i>alba</i> Ad.	39	<i>Phillipiana</i> Pfr.
39	<i>Gossei</i> Pfr.	39	<i>elegans</i> Ad.
39	<i>seminuda</i> Ad.	39	<i>venusta</i> Pfr.
39	<i>costulata</i> Ad.	39	<i>leucozonias</i> Walch.
39	<i>subula</i> Fer.	39	<i>Dominicensis</i> Gmel.
39	<i>alabastrina</i> Pfr. [Pfr.	39	<i>curvilabris</i> Pfr.
39	<i>Humboldtiana</i> (var. β .)	39	<i>angiotoma</i> Ad.
39	<i>variegata</i> (var. γ .) Pfr.	39	<i>Ingallsiana</i> Ad.
39	<i>montana</i> Ad.	39	<i>unicolor</i> Ad.
39	<i>Gravesii</i> Ad.	39	<i>nemorensis</i> Ad.
39	<i>rosea</i> Pfr.	39	<i>Phillipsii</i> Ad.
39	var. <i>magna</i> Ad.	39	<i>arcuata</i> Pfr.
39	var. <i>major</i> Ad.	40	<i>vicina</i> Ad.
39	<i>ambigua</i> Ad.	40	<i>propinqua</i> Ad.
39	<i>cylindrus</i> Chemn.	40	<i>Gossei</i> Pfr.
39	<i>rubella</i> Ad.	40	<i>costulata</i> Ad.
39	<i>aspera</i> Ad.	40	<i>aberrans</i> Pfr.
39	<i>obesa</i> Ad.	40	<i>pellucens</i> Ad.
39	<i>brevis</i> Pfr.	40	<i>levis</i> Ad.
39	<i>columna</i> Ad.	40	<i>micans</i> Ad.
39	var. <i>intermedia</i> Ad.	40	<i>iota</i> Ad.
39	<i>nobilior</i> Ad.	40	<i>octona</i> Chemn.
39	<i>carnea</i> Ad.	40	<i>striosa</i> Ad.
39	var. <i>cerina</i> Ad.	40	<i>inuitata</i> Ad.
39	<i>sanguinea</i> Pfr.	40	<i>Bulimus minimus</i> Ad.
39	<i>Maugeri</i> Wood.	40	<i>striatellus</i> Ad.
39	<i>inornata</i> Ad.	40	<i>terebella</i> Ad.
39	<i>simplex</i> Ad.	40	<i>pauperculus</i> Ad.
39	<i>Hydeana</i> Ad.	40	<i>octonoides</i> Ad.

[Contributions to Conchology.]

Page.		Page.	
40	Bulimus pallidus <i>Ad.</i>	40	Helix angustata <i>Fer.</i>
40	<i>monodon</i> <i>Ad.</i>	40	<i>Cubensis</i> (var. <i>S</i>) <i>Pfr.</i>
40	<i>nitidiusculus</i> <i>Ad.</i>	41	<i>tunicata</i> <i>Ad.</i>
40	<i>læviusculus</i> <i>Ad.</i>	41	<i>sulphurea</i> <i>Ad.</i>
40	<i>subula</i> <i>Pfr.</i> (errata p. 48.)	41	<i>Mac Murrayi</i> <i>Ad.</i>
40	<i>rufescens</i> <i>Gray.</i>	41	<i>munda</i> <i>Ad.</i>
40	<i>erubescens</i> <i>Pfr.</i>	41	<i>tenerrima</i> <i>Ad.</i>
40	<i>immaculatus</i> <i>Ad.</i>	41	<i>graminicola</i> <i>Ad.</i>
40	<i>zebra</i> <i>Müll.</i>	41	<i>nemoraloïdes</i> <i>Ad.</i>
40	<i>anomalus</i> <i>Ad.</i>	41	<i>Gossei</i> <i>Pfr.</i>
40	<i>mirabilis</i> <i>Ad.</i>	41	<i>subconica</i> <i>Ad.</i>
40	Pupa fallax (?) <i>Say.</i>	41	<i>fuscocincta</i> <i>Ad.</i>
40	<i>lata</i> <i>Ad.</i>	41	<i>virginea</i> <i>Ad.</i>
40	<i>contracta</i> (?) <i>Say.</i>	41	<i>fuscula</i> <i>Ad.</i>
40	<i>tenuidens</i> <i>Ad.</i>	41	<i>immunda</i> <i>Ad.</i>
40	<i>hexodon</i> <i>Ad.</i>	41	<i>ptychodes</i> <i>Pfr.</i>
40	<i>servilis</i> <i>Gould.</i>	41	<i>perdepressa</i> <i>Ad.</i>
40	<i>Jamaicensis</i> <i>Ad.</i>	41	<i>depressa</i> <i>Ad.</i>
40	<i>exilis</i> <i>Ad.</i>	41	<i>sincera</i> <i>Ad.</i>
40	<i>striatella</i> (?) <i>Fer.</i>	41	<i>diminuta</i> <i>Ad.</i>
40	Succinea angustior <i>Ad.</i>	41	<i>apex</i> <i>Ad.</i>
40	<i>Sagra</i> <i>Orb.</i>	41	<i>inconspicua</i> <i>Ad.</i>
40	<i>latior</i> <i>Ad.</i>	41	<i>peraffinis</i> <i>Ad.</i>
40	<i>contorta</i> <i>Ad.</i>	41	<i>Boothiana</i> <i>Pfr.</i>
40	Helix Martiniana <i>Pfr.</i>	41	<i>turbiniformis</i> <i>Pfr.</i>
40	<i>peracutissima</i> <i>Ad.</i>	41	<i>Anthoniana</i> <i>Ad.</i>
40	<i>soror</i> <i>Fer.</i>	41	<i>angustispira</i> <i>Ad.</i>
40	<i>cara</i> <i>Ad.</i>	41	<i>ambigua</i> <i>Ad.</i>
40	<i>Chittyana</i> <i>Ad.</i>	41	<i>brevis</i> <i>Ad.</i>
40	<i>patina</i> <i>Ad.</i>	41	<i>Hollandi</i> <i>Ad.</i>
40	<i>fluctuata</i> <i>Ad.</i>	41	<i>arboreoides</i> <i>Ad.</i>
40	<i>acutissima</i> <i>Lam.</i>	41	<i>similis</i> <i>Ad.</i>
40	<i>Bainbridgii</i> <i>Pfr.</i>	41	<i>lamellifera</i> <i>Ad.</i>
40	<i>Spengleriana</i> <i>Pfr.</i>	41	<i>pila</i> <i>Ad.</i>
40	<i>lucerna</i> <i>Müll.</i>	41	<i>Cookiana</i> <i>Gmel.</i>
40	<i>Okeniana</i> <i>Pfr.</i>	41	<i>torrefacta</i> <i>Ad.</i>
40	<i>tridentina</i> <i>Fer.</i>	41	<i>epistyliulum</i> <i>Ad.</i>
40	<i>Bronnii</i> <i>Pfr.</i>	41	<i>epistylium</i> <i>Müll.</i>
40	<i>picturata</i> <i>Ad.</i>	41	<i>epistylioides</i> <i>Fer.</i>
40	<i>sinuata</i> <i>Müll.</i>	41	<i>simulans</i> <i>Ad.</i>
40	<i>strangulata</i> <i>Ad.</i>	41	<i>dioscoricola</i> <i>Ad.</i>
40	<i>anomala</i> <i>Pfr.</i>	41	Proserpina nitida <i>Sowb.</i>
40	<i>aspera</i> <i>Fer.</i>	41	<i>opalina</i> <i>Ad.</i>
40	<i>Jamaicensis</i> <i>Chemn.</i>		

[Contributions to Conchology.]

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41 New Auriculidæ which inhabit Jamaica: by Prof. C. B. ADAMS.

41 *Melampus coronatus* Ad.41 *Pedipes ovalis* Ad.

42 Catalogue of Auriculidæ which inhabit Jamaica.

42 *Melampus coniformis* Brug.42 *flavus* Gmel.*Auricula monile* Lam.42 *pusillus* Gmel.*Auricula nitens* Lam.42 *Melampus coronatus* Ad.42 *cingulatus* Pfr.42 *Pedipes quadridens* Pfr.42 *ovalis* Ad.

42 Descriptions of supposed new species of Fresh Water Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

42 *Paludina Jamaicensis* Ad.42 *Valvata pygmæa* Ad.43 *Planorbis Mac Nabianus*43 *Redfieldi* Ad. [Ad.]43 *Haldemani* Ad.43 *Planorbis decipiens* Ad.44 *affinis* Ad.44 *Cyclas Veatleyi* Ad.44 *pygmæa* Ad.

45 Catalogue of Fresh Water Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

45 *Melanopsis lineolata* Gray.45 *Melania spinifera* Ad.45 *Valvata pygmæa* Ad.45 *Paludina rivularis* Ad.45 *Jamaicensis* Ad.45 *Ampularia fasciata* (?) Lam.45 *Planorbis Mac Nabianus*45 *Redfieldi* Ad. [Ad.]45 *Haldemani* Ad.45 *Planorbis dentiferus* Ad.45 *pallidus* Ad.45 *decipiens* Ad.45 *affinis* Ad.45 *Ancylus obscurus* (?) Hald.45 *Physa Soverbyana* Orb.45 *Limnæa umbilicata* Ad.45 *Cyclas pygmæa* Ad.45 *Veatleyi* Ad.

45 Remarks on the distribution of the Terrestrial and Fresh Water Mollusca which inhabit Jamaica: by Prof. C. B. ADAMS. October, 1849. Read before the American Association for the Promotion of Science, August 16, 1849 (and published also in their Proc. vol. ii, p. 147, 1856.)

No. 4.

49 Remarks on the distribution of the Terrestrial and Fresh Water Mollusca which inhabit Jamaica—continued.

50 *Cyclostoma solidum* Ad. non Menke = *C. Jayanum* Ad.

[Contributions to Conchology.]

Nov. 1849.

Page.

- 51 Remarks on the weight of the Shells of certain species of Colima-
cea: by Prof. C. B. Adams.

51	<i>Cyclostoma avena</i> Ad.	Page.	
51	<i>Helicina lineata</i> Ad.	52	<i>Stoastoma Gouldianum</i> Ad.
51	<i>depressa</i> Gray.	52	<i>Cumingianum</i> Ad.
51	<i>affinis</i> Ad.	52	<i>Pfeifferianum</i> Ad.
51	<i>Adamsiana</i> Pfr.	52	<i>pisum</i> Ad.
51	<i>solitaria</i> Ad.	52	<i>Truncatella fusca</i> Phil.
51	<i>megastoma</i> Ad. (aurantia Gray in errata.)	52	<i>Adamsi</i> Pfr.
51	<i>costata</i> Sowb.	52	<i>scalaris</i> Mich.
51	<i>hæmastoma</i> Moric.	52	<i>costellaris</i> (?) Risso.
51	<i>Jamaicensis</i> Sowb.	52	<i>succinea</i> Ad.
52	<i>neritella</i> Lam.	52	<i>Pedipes quadridens</i> Pfr.
52	<i>albolabris</i> Ad.	52	<i>Geomelania minor</i> Ad.
52	<i>maxima</i> Sowb.	52	<i>Cylindrella pygmea</i> Ad.
52	<i>Trochatella tenuis</i> Ad.	52	<i>tenera</i> Ad.
52	<i>Josephinæ</i> Ad.	52	<i>Beardsleana</i> Ad.
52	<i>pulchella</i> Gray.	52	<i>Achatina iota</i> Ad.
52	<i>Tankervillei</i> Sowb.	52	<i>aberrans</i> Pfr.
52	<i>Lucidella aureola</i> Gray.	52	<i>Bulimus minimus</i> Ad.
52	<i>Stoastoma Blandianum</i> Ad.	52	<i>Helix apex</i> Ad.
52	<i>Redfieldianum</i> Ad.	52	<i>minuscule</i> Binney.
52	<i>Leanum</i> Ad.	52	<i>pulchella</i> Müll.
52	<i>Jayanum</i> Ad.	52	<i>Pupa Jamaicensis</i> Ad.
52	<i>Fadyenianum</i> Ad.	52	<i>milium</i> Gould.
		52	<i>minutissima</i> Hartm.

Jan. 1850.

- 53 Description of a supposed new species of *Columbella*: by Prof. C. B.
ADAMS.

53 *Columbella ovuloides* Ad. Bahamas.

- 54 Notes on the synonymy of certain Marine Shells: by Prof. C. B.
ADAMS.

54	<i>Pleurotoma plicata</i> Ad. = P.	55	<i>Columbella monilifera</i> S. =
	<i>plicosa</i> Ad.	55	<i>Pleurotoma monilifera</i>
54	<i>P. decussata</i> Mac. = P.		(<i>Columbella</i>) Sowb.
	<i>Macgillivrayi</i> Ad.	55	<i>Pleurotoma alborivittata</i> Ad. =
54	<i>P. violacea</i> Hinds = P.		<i>P. luteo-fasciata</i> Ree.
	<i>Reevii</i> Ad.	55	<i>P. trilineata</i> Ad. = P. tri-
54	<i>P. nigrescens</i> Ad. = P. ni-		<i>fasciata</i> Gray.
	<i>grescens</i> Gray.	55	<i>Mangelia alborivittata</i>
54	<i>P. fuscolineata</i> Ad. = P.		(<i>Pleurotoma</i>) Ad.
	<i>scalpta</i> Ree.	55	<i>fusca</i> (<i>Pleurotoma</i>) Ad.

[Contributions to Conchology.]

Page.		Page.	
55	Mangelia dubia (Pleurotoma) <i>Ad.</i>	55	<i>Buccinum concinnum</i> <i>Ad.</i> = Columbella.
55	multilineata (Pleurotoma) <i>Ad.</i> [<i>Ad.</i>	55	<i>Columbella purpurascens</i> <i>Ad.</i> = C. dormitor <i>Soub.</i>
55	trilineata (Pleurotoma)	55	<i>Buccinum obesum</i> <i>Ad.</i> = Co- lumbella.
55	candidissima (Pleurotoma) <i>Ad.</i>		

Note on—

55 **Geomelania Jamaicensis** *Pfr.*

56 Descriptions of supposed new species of Marine Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

56	Marginella nivea <i>Ad.</i>	62	Pleurotoma diminuta <i>Ad.</i> <i>P. quadrata</i> <i>Rve?</i>
56	alba <i>Ad.</i>	62	decorata <i>Ad.</i>
56	abbreviata <i>Ad.</i>	63	albella <i>Ad.</i>
56	fluctuata <i>Ad.</i>	63	pygmæa <i>Ad.</i>
57	Mitra monilifera <i>Ad.</i>	63	flavocincta <i>Ad.</i>
57	albicostata <i>Ad.</i>	64	nodata <i>Ad.</i>
57	Columbella fenestrata <i>Ad.</i>	64	quadrilineata <i>Ad.</i>
58	costulata <i>Ad.</i>	64	fusiformis <i>Ad.</i>
58	Terebra Jamaicensis <i>Ad.</i>	65	Mangelia densestriata <i>Ad.</i>
58	Purpura aberrans <i>Ad.</i>	65	muricoides <i>Ad.</i>
59	Conus armillatus <i>Ad.</i>	65	biconica <i>Ad.</i>
59	Triton parvus <i>Ad.</i>	66	lanceolata <i>Ad.</i>
60	pulchellus <i>Ad.</i>	66	crassicostata <i>Ad.</i>
60	Murex intermedius <i>Ad.</i>	66	brevis <i>Ad.</i>
60	pauperculus <i>Ad.</i>	66	vicina <i>Ad.</i>
60	Fusus nitens <i>Ad.</i>	67	Scalaria ligata <i>Ad.</i>
61	Pleurotoma augustæ <i>Ad.</i>	67	Phasianella affinis <i>Ad.</i>
61	Jayana <i>Ad.</i>	67	brevis <i>Ad.</i>
61	solida <i>Ad.</i>	67	tesselata <i>Ad.</i>
62	fuscocincta <i>Ad.</i>	68	concolor <i>Ad.</i>
62	maculata <i>Ad.</i>		

No. 5.
Feb. 1850.

69 Descriptions of supposed new species of Marine Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

69	Phasianella concinna <i>Ad.</i>	71	Litiopa effusa <i>Ad.</i>
69	Trochus pulcher <i>Ad.</i>	71	obesa <i>Ad.</i>
70	Cingula (?) concinna <i>Ad.</i>	71	Littorina Jamaicensis <i>Ad.</i>
70	(?) solida <i>Ad.</i>	72	Chemnitzia latior <i>Ad.</i>
70	(?) conica <i>Ad.</i>	72	puncta <i>Ad.</i>

[Contributions to Conchology.]

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| Page. | | Page. | |
| 72 | <i>Chemnitzia obeliscus</i> <i>Ad.</i> | 74 | <i>Chemnitzia pusilla</i> <i>Ad.</i> |
| 73 | <i>subulata</i> <i>Ad.</i> | 74 | <i>flavocincta</i> <i>Ad.</i> |
| 73 | <i>levis</i> <i>Ad.</i> | 74 | <i>multicostata</i> <i>Ad.</i> |
| 73 | <i>substriata</i> <i>Ad.</i> | 75 | <i>reticulata</i> <i>Ad.</i> |
| 74 | <i>exilis</i> <i>Ad.</i> | | |
- Note on—
- 75 *Pholas corticaria* *Sowb.*
- 76 Descriptions of supposed new species and varieties of Terrestrial Shells which inhabit Jamaica: by Prof. C. B. ADAMS.
- | | | | |
|----|--|----|--|
| 76 | <i>Helix ingens</i> <i>Ad.</i> | 81 | <i>Proserpina bidentata</i> <i>Ad.</i> |
| 77 | <i>valida</i> <i>Ad.</i> | 82 | <i>Cylindrella Greyana</i> <i>Ad.</i> |
| 77 | <i>fortis</i> <i>Ad.</i> | 82 | <i>lata</i> <i>Ad.</i> |
| 79 | <i>invalida</i> <i>Ad.</i> | 82 | <i>Hollandi</i> <i>Ad.</i> |
| 79 | <i>propenuda</i> <i>Ad.</i> | 83 | <i>augustæ</i> <i>Ad.</i> |
| 80 | <i>candescens</i> <i>Ad.</i> | 83 | <i>Achatina Blandiana</i> <i>Ad.</i> |
| 80 | <i>Foremaniana</i> <i>Ad.</i> | 83 | <i>puella</i> <i>Ad.</i> |
| 80 | <i>alveus</i> <i>Ad.</i> | 84 | <i>perplexa</i> <i>Ad.</i> |
| 80 | <i>columellata</i> <i>Ad.</i> | 84 | <i>Geomelania</i> <i>Ad.</i> |
| 81 | <i>Proserpina discoidea</i> <i>Ad.</i> | 84 | <i>Cyclostoma aculeosum</i> <i>Ad.</i> = |
| 81 | <i>pulchra</i> <i>Ad.</i> | | <i>C. Hillianum</i> <i>Ad.</i> |
- No. 6.
March, 1850.
- 85 Remarks on the origin of the Terrestrial Molluscs of Jamaica: by Prof. C. B. ADAMS.
- 87 Description of a new genus of Helicidæ from Jamaica: by Prof. C. B. ADAMS.
- | | | | |
|----|------------------------------------|----|---------------------------------------|
| 87 | <i>Spiraxis</i> <i>Ad.</i> (n. g.) | 88 | <i>Spiraxis costulosus</i> <i>Ad.</i> |
| 88 | <i>aberrans</i> <i>Ad.</i> | | |
- 88 Description of *Jamaicia*, a new sub-genus of *Cyclostoma*: by Prof. C. B. ADAMS.
- 88 Notes on certain species of the Land Shells of Jamaica: by Prof. C. B. ADAMS.
- | | | | |
|----|--------------------------------------|----|---|
| 88 | <i>Helicina Hollandi</i> <i>Ad.</i> | 89 | <i>Geomelania Beardsleana</i> |
| 89 | <i>Lucidella aureola</i> <i>Ad.</i> | 89 | <i>pygmæa</i> <i>Ad.</i> [<i>Ad.</i> |
| 89 | <i>granulosa</i> <i>Ad.</i> | 89 | <i>striosa</i> <i>Ad.</i> |
| 89 | <i>Cyclostoma Jayanum</i> <i>Ad.</i> | 89 | <i>Helicina hæmastoma</i> <i>Moric.</i> |
| 89 | <i>nigrilabre</i> <i>Ad.</i> | 89 | <i>aurantia</i> <i>Gray.</i> |
| 89 | <i>Chittyi</i> <i>Ad.</i> | 90 | <i>Cylindrella brevis</i> <i>Ad.</i> |
| 89 | <i>fimbriatulum</i> <i>Sowb.</i> | 90 | <i>Achatina pellucens</i> <i>Ad.</i> |
| 89 | <i>Geomelania elegans</i> <i>Ad.</i> | | |

[Contributions to Conchology.]

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90 Description of supposed new species of Land Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

	Page.	
90 <i>Cyclostoma virgineum</i> Ad.		96 <i>Geomelania media</i> Ad.
90 <i>anomalum</i> Ad.	96	96 <i>vicina</i> Ad.
91 <i>nodulosum</i> Ad.	96	96 <i>striosa</i> Ad.
91 <i>retrorsum</i> Ad.	96	96 <i>costulosa</i> Ad.
92 <i>Shepardianum</i> Ad.	96	97 <i>conica</i> Ad.
92 <i>papyraceum</i> Ad.	97	97 <i>pauperata</i> Ad.
93 <i>Griffithianum</i> Ad.	97	97 <i>exilis</i> Ad.
93 <i>granosum</i> Ad.	97	98 <i>Cylindrella costulosa</i> Ad.
93 <i>Helicina dubiosa</i> Ad.	98	98 <i>Helix sulphurea</i> Ad.
94 var. <i>intermedia</i> Ad.	98	98 <i>Dolium perdix</i> Ad.
94 <i>Geomelania fortis</i> Ad.	98	98 <i>Helix picturata</i> Ad.
94 <i>magna</i> Ad.		<i>H. sinuata</i> Born.
95 <i>procera</i> Ad.		<i>sinuosa</i> Gmel.
95 <i>gracilis</i> Ad.	100	100 <i>picturata</i> Ad.
95 <i>typica</i> Ad.	100	100 <i>sinuata</i> Deless.
96 var. <i>pygmæa</i> Ad.		<i>H. picturata</i> Ad.
96 <i>affinis</i> Ad.		

No. 7.

April, 1850.

100 Descriptions of supposed new species of Land Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

101 <i>Helicina ampliata</i> Ad.	104 <i>Achatina osculans</i> Ad.
101 <i>pusilla</i> Ad.	105 <i>Helix connectens</i> Ad.
101 <i>Cylindrella humilis</i> Ad.	105 <i>alligans</i> Ad.
102 <i>pusilla</i> Ad.	105 <i>amabilis</i> Ad.
102 <i>pupæformis</i> Ad.	106 <i>fuscolabris</i> Ad.
102 <i>procera</i> Ad.	106 <i>nobilis</i> Ad.
102 <i>Achatina costulosa</i> Ad.	107 <i>Redfieldiana</i> Ad.
103 <i>nitida</i> Ad.	107 <i>Blandiana</i> Ad.
103 <i>Gayana</i> Ad.	107 <i>osculans</i> Ad.
103 <i>similis</i> Ad.	108 <i>Proserpina pisum</i> Ad. *
104 <i>tenera</i> Ad.	108 <i>Helix ingens</i> Ad.
104 <i>longispira</i> Ad.	108 <i>Cyclostoma Sauliæ</i> Sowb.
104 <i>gracilior</i> Ad.	108 <i>suturale</i> Sowb.

109 Descriptions of supposed new species of Marine Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

109 <i>Narica</i> (?) <i>anomala</i> Ad.	110 <i>Odostomia solidula</i> Ad.
109 <i>Odostomia gemmulosa</i> Ad.	110 <i>Eulima gracilis</i> Ad.
109 <i>canaliculata</i> Ad.	110 <i>arcuata</i> Ad.
109 <i>ovuloides</i> Ad.	110 <i>conica</i> Ad.

[Contributions to Conchology.]

Page.		Page.	
110	<i>Eulima affinis</i> <i>Ad.</i>	117	<i>Cerithium modestum</i> <i>Ad.</i>
111	(?) <i>fulvo-cincta</i> <i>Ad.</i>	117	<i>melanura</i> <i>Ad.</i>
111	<i>Natica proxima</i> <i>Ad.</i>	117	<i>decoratum</i> <i>Ad.</i>
111	<i>Jamaicensis</i> <i>Ad.</i>	117	<i>dealbatum</i> <i>Ad.</i>
112	<i>Neritina ornata</i> <i>Ad.</i>	117	<i>nanum</i> <i>Ad.</i>
112	(?) <i>pusilla</i> <i>Ad.</i>	118	<i>mirabile</i> <i>Ad.</i>
112	<i>Rissoa subangulata</i> <i>Ad.</i>	118	<i>exiguum</i> <i>Ad.</i>
113	<i>aberrans</i> <i>Ad.</i>	119	<i>intermedium</i> <i>Ad.</i>
113	<i>scalaroides</i> <i>Ad.</i>	119	<i>versicolor</i> <i>Ad.</i>
114	<i>lævigata</i> <i>Ad.</i>	119	<i>megasoma</i> <i>Ad.</i>
114	<i>dubiosa</i> <i>Ad.</i>	120	<i>gemmulosum</i> <i>Ad.</i>
114	<i>pulchra</i> <i>Ad.</i>	120	<i>exile</i> <i>Ad.</i>
114	<i>multicostata</i> <i>Ad.</i>	120	<i>fusiforme</i> <i>Ad.</i>
115	<i>vitrea</i> <i>Ad.</i>	121	<i>pulchellum</i> <i>Ad.</i>
115	<i>lævissima</i> <i>Ad.</i>	121	<i>rugulosum</i> <i>Ad.</i>
115	<i>eulimoides</i> <i>Ad.</i>	122	<i>vicinum</i> <i>Ad.</i>
116	<i>striosa</i> <i>Ad.</i>	122	<i>latum</i> <i>Ad.</i>
116	<i>princeps</i> <i>Ad.</i>	122	<i>flavum</i> <i>Ad.</i>
116	(?) <i>melanura</i> <i>Ad.</i>	122	<i>albovittatum</i> <i>Ad.</i>

[For pp. 125-187, see the quotations of Ann. N. Y. Lyc.—W. G. B.]

No. 10.
Nov. 1851.

189 On the Nature and Origin of the species of the Terrestrial Mollusca in the Island of Jamaica: by Prof. C. B. ADAMS. (Also, Am. Ass. Adv. Sc. Proc., vol. iv, p. 29. 1851.)

194 Notice of a Reversed Cyclostoma. (Also in Proc. Am. Ass. Adv. Sc., vol. iv, p. 32. 1851.)

194 *Cyclostoma Jayanum* *Ad.*

194 On the value of the Shells of Mollusca for the purpose of distinguishing species and higher groups: by Prof. C. B. ADAMS. Also in Proc. Am. Ass. Adv. Sc., vol. iv, p. 180. 1851. And Eding. N. Phil. Journ. No. 51, p. 259. 1851. And Forr. Tagsber. No. 443, (Zool. Bd. ii, p. 217. 1852.)

203 Notes on—

203	<i>Cyclostoma Newcomb-</i>	204	<i>Helix pretiosa</i> <i>Ad.</i>
	<i>ianum</i> <i>Ad.</i>	204	<i>Ancylus obliquus</i> <i>Ad.</i> = <i>A.</i>
203	<i>Swiftianum</i> <i>Ad.</i>		<i>Chittyi</i> <i>Ad.</i>
203	<i>Troscheli</i> <i>Pfr.</i>	204	<i>Helix incerta</i> <i>Ad.</i>
204	<i>Tornatellina Cubensis</i> <i>Pfr.</i>	204	<i>lima</i> <i>Ad.</i>
204	<i>Helix Schroeteriana</i> <i>Pfr.</i>	204	<i>angustata</i> <i>Ad.</i>

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205 Remarks on certain Helices which are described and figured in the
Conchologia Iconica for Oct. 1851: by Prof. C. B. ADAMS.

205 *Helix patina* Ad.205 *acuta* Lam.205 *Chemnitziana* Pfr. = *H.*
fluctuata Ad.205 *Helix ingens* Ad.205 *Bainbridgei* Pfr.206 *Lucerna* Müll.

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206 *Helix tumida* Pfr.206 *tunicata* Ad.206 *Chittyana* Ad.206 *valida* Ad.206 *anomala* Pfr.No. 11.
Oct. 1852.

207 Hints on the geographical distribution of Animals, with special
reference to the Mollusca: by Prof. C. B. ADAMS.

215 Catalogue of the Terrestrial Shells of St. Thomas, West Indies: by
THOMAS BLAND, F. G. S., London.

215 *Helix depicta* Grat.216 *plicaria* Lam.216 *squamosa* Fer. [Fer.216 *Bulimus bæticatus* (*Helix*)216 *badius* (*Helix*) Fer.216 *Pupa decumana* (*Helix*) Fer.216 *Cylindrella gracilicollis*
(*Helix*) Fer.216 *Maugeri* (*Helix*) Wood.216 *Cyclostoma Antillarum* Sb.
Megalomastoma Antillarum
Gray.216 *Newcombianum* Ad.*C. Swiftianum* Ad.*Troscheli* Ad.*Newcombianum* Ad.217 *Helicina subfusca* Mke.*Hel. rotulina* Mich.*castanea* Gould?*Hornbeckii* Phil.*subfusca* Küst.

217 ? — (sp. ined.)

217 *Cylindrella pallida* (*Bra-*
chypus) Guild.

218 ? — (sp. ined.)

218 *Achatina octona* Chemn.*Bulimus octona* Lam.

219 ? — (sp. ined.)

219 ? *iota* Ad.219 *Bulimus exilis* (*Helix*) Gmel.*B. Guadaloupensis* Brug.220 var β *trifasciatus* Pfr.220 *virgulatus* (*Cochlogena*)
Fer.*B. Caribbeonum* Lam.221 ? *Dysoni* Pfr.

221 ? — (sp. ined.)

221 ? *subula* (*Achatina*) Pfr.*B. hortensis* Ad?

221 ? — (sp. ined.)

222 ? — (sp. ined.)

222 *Pupa servilis*? Gould.222 *Succinea Sagra*? Orb.222 *Helix incerta* (*Helicostyla*)
H. lima Rve. [Fer.223 *nemoralina* Pet.

223 ? — (sp. ined.)

223 ? — (sp. ined.)

223 ? *peraffinis* Ad.

224 ? — (sp. ined.)

[Contributions to Conchology.

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224 On the Clausiliæ of America: by THOMAS BLAND.

225	Clausilia tridens (Turbo)	Page.
	<i>Clemn.</i>	<i>Clausilia costulata</i> Lam.
	<i>Turbo labiatus</i> Dillw.	<i>labiata</i> Sowb.
	<i>C. tridens</i> Sch.	<i>Turbo costulatus</i> Wood.
	<i>Helix bicanaliculata</i>	227 Clausilia Pernana Trosch.
	(<i>Cochlodina</i>) Fer.	228 epistomium Küst.

228 Catalogue of Terrestrial Shells collected by T. BLAND in New Granada, in 1851.

228	Cyclostoma giganteum	229 Bulimus oblongus Müll.
228	Popayanum Lea. [Gray.	230 geometricus Pfr.
228	Quitense Pfr.	230 spectatus Ree.
229	Helicina concentrica Pfr.	230 ? linostoma D'Orb.
229	Bulimus Derrisoni Ree.	230 ? Pealianus Lea.
229	Powisianus Pet.	230 succinoides Pet.
229	Gibbonius Lea.	230 nitelinus Ree.
229	castaneus Pfr.	230 Gruneri Pfr.
229	maximus Sowb.	

No. 12.

231 Catalogue of Terrestrial Shells collected by T. BLAND in New Granada, in 1851—continued.

231	Bulimus Lamarckianus Pfr.	232 Helix Oreas (var.)
231	Adamsoni Gray.	232 ? atrata Pfr.
231	Streptaxis Candeara (He- lix) Pet.	232 subplanata ? (Caracolla)
231	Helix Gibboni Pfr.	232 ? monile Brod. [Pet.
231	Oreas Koch.	<i>H. planorbis</i> Jay.
		233 Clausilia epistomium Küst.

233 Descriptions of new species of *Corbula* from Jamaica: by Prof. C. B. ADAMS.

234	Corbula Krebsiana Ad.	238 Corbula Chittiana Ad.
234	Blandiana Ad.	238 Knoxiana Ad.
235	Dietziana Ad.	239 quadrata Hinds.
236	Swiftiana Ad.	240 Newtoniana Ad.
237	Kjeriana Ad.	240 fulva Ad.
237	Barrattiana Ad.	

Notes on—

241	Journal de Conchyliologie.
242	Memorias sobre la Historia Natural de la Isla de Cuba.

[Contributions to Conchology.]

Nov. 1852.
Page.242 Catalogue of species of *Lucina* which inhabit the West Indian Seas:
by Prof. C. B. ADAMS.

	Page.
243 <i>Lucina Americana</i> Ad.	245 <i>Lucina Janeirensis</i> Ree.
243 <i>Anatellinoides</i> Ree.	245 <i>pectinata</i> Ad.
243 <i>Antillarum</i> Ree.	246 <i>pectinella</i> Ad.
244 <i>aurantia</i> Desh.	246 <i>Pennsylvanica</i> (Venus)
244 <i>Chemnitzii</i> Phil.	246 <i>pilula</i> Ad. [Linn.
244 <i>edentula</i> (Venus) Linn.	247 <i>scabra</i> Ree.
244 <i>exasperata</i> Ree.	247 <i>soror</i> Ad.
244 <i>funiculata</i> Ree.	247 <i>tigerina</i> (Venus) Linn.
245 <i>granulosa</i> Ad.	247 <i>virgo</i> Ree.
245 <i>imbricatula</i> Ad.	
245 <i>Jamaicensis</i> (Venus) Ch.	

Lea.—A synopsis of the Family of Naiades, &c. &c., vide pp. 52, 220, 230.

[I have not repeated the numerous foreign species. For these and their synonymy the student must consult the work itself.—W. G. B.]

Conrad.—Description of the Fossils of Syria, collected in the Palestine Expedition. Recent Shells by T. A. CONRAD, p. 228. (From Official Report of the United States Expedition to explore the Dead Sea and the River Jordan: by W. F. LYNCH, U. S. N.; published at the National Observatory by authority of the Hon. W. A. Graham, Secretary of the Navy. Baltimore, 1852.)

Pa.	Pl.	Fig.		
228	xxii	128 ¹	<i>Helix lithophaga</i> Conr.	Wady en-Nar. [Jezzin.
228	xv	80	<i>ligata</i> Müll.	Between Mukhtarrah &
229	xxii	129 ²	<i>Carocolla tuberculosa</i> Conr.	Shore of Dead Sea.
229	xxii	130 ³	<i>Paludina Phialensis</i> Conr.	Lake Phiala.

¹ Fig. 133.² Fig. 132.³ Fig. 131.

Gould.—The Mollusca and Shells of the United States Exploring Expedition under Com. Wilkes: by A. A. GOULD, M. D. Boston, 1852. (Plates, 1856, according to title page, though they really appeared in 1861.)

[The following are the foreign species. For the American, vide p. 417. W. G. B.]

Pa.	Fig.		
1		Anchorocophorus Gould (n. g.)	
2	6-6 ^c	bitentaculatus Gould.	
		<i>Limax bitentaculatus</i> Quoy.	
4	3-3 ^b	Limax olivaceus Gould.	Paramatta, N. S. W.
5	4, 4 ^a	fuliginosus Gould.	Bay of Islands, N. Z.
5	5-5 ^b	Vaginulus Taunaisii Fer.	Rio Janeiro.
6	7-7 ^d	Vitrina ruivensis Gould.	Pico de Ruivo, Madeira.
7	12-12 ^s	marcida Gould.	Roche de Empeña, Mad.
9	8-8 ^b	nitida Gould.	Roche de Empeña, Mad.
10	11-11 ^b	robusta Gould.	New South Wales.
10	9, 9 ^a	caperata Gould.	Kauai.
11	10-10 ^c	tenella Gould.	Kauai.
12	13	furva Gould.	St. Anna, Madeira.
		<i>Helix furva</i> Lowe.	
13	31-31 ^c	Succinea explanata Gould.	Kauai.
13	16-16 ^b	putamen Gould.	Upolu.
15	14-14 ^c	rotundata Gould.	Oahu.
16	15-15 ^b	cepulla Gould.	Hawaii.
17	18-18 ^b	tumbalis Gould.	Hawaii, &c.
18	19, 19 ^a	humerosa Gould.	Tahiti.
19	26-26 ^d	infundibuliformis Gould.	Tahiti, &c.
20	28-28 ^b	procera Gould.	Tahiti, &c.
21	17, 17 ^a	vesicalis Gould.	Hawaii.
21	27-27 ^b	pudorina Gould.	Tahiti, &c.
22	25-25 ^b	venusta Gould.	Hawaii, &c.
23	24-24 ^b	modesta Gould.	Tahiti, &c.
24	22-22 ^c	Magellanica Gould.	Tierra del Fuego.
25	23-23 ^b	Manuana Gould.	Manna.
26	30-30 ^b	caduca Mighels.	Sandwich Islands.
27	20-20 ^b	canella Gould.	Maui.
28	21-21 ^b	crocata Gould.	Upolu, &c.
29	66, 66 ^a	Nanina rubricata Gould (<i>Helix</i>).	Lebonka.
31	68-68 ^b	lurida Gould (<i>Helix</i>).	Feejee Islands.
31	69-69 ^b	casca Gould.	Feejee Islands.
		<i>Helix calva</i> Gould.	
32		fricata Gould.	New South Wales.

[Gould, Exploring Expedition.]

Pa.	Fig.		
33	67-67 ^b	Nanina scorpio Gould (<i>Helix</i>).	Feejee Islands.
34	65-65 ^c	irradiata Gould (<i>Helix</i>).	New Zealand.
35	47	Helix intaminata Gould.	Mangsi.
38	45-45 ^c	spirillus Gould.	Lima.
39	34-34 ^c	lyrata Gould.	Orange Harbor, Tierra d.
40	46-46 ^c	pauxillus Gould.	East Maui. [Fuego.
		<i>Helix pusillus</i> Gould.	
41	44-44 ^c	zig-zag Gould.	Taiaimi, New Zealand.
42	33-33 ^c	saxatilis Gould.	Orange Harbor, Tierra d.
43	73-73 ^c	cicercula Gould.	Hawaii. [Fuego.
44	72-72 ^c	cryptoportica Gould.	Oahu.
45	60-60 ^c	pertenuis Gould.	Metia Island.
46	59-59 ^c	cultrata Gould.	Tahiti, &c.
47	61-61 ^c	exæquata Gould.	Kauai.
48	63-63 ^c	calculosa Gould.	Tahiti.
48	62-62 ^c	subtilissima Gould.	Maui.
49	48-48 ^c	gradata Gould.	Tonga Island.
50	64-64 ^b	fornicata Gould.	Kauai.
50	49-49 ^c	rubiginosa Gould.	Kauai.
51	52-52 ^m	bursatella Gould.	Tahiti, &c.
53	50-50 ^c	obolus Gould.	Tahiti.
54	51-51 ^d	dædalea Gould.	Tahiti, &c.
55	52*-52* ^c	hystrix Mighels.	East Maui.
		<i>H. setigera</i> Gould.	
56	52†-52† ^c	stellula Gould.	Maui.
57	56-56 ^c	Cressida Gould.	Society Islands, &c.
58	55-55 ^c	troilus Gould.	Upolu, &c.
60	57-57 ^b	Eurydice Gould.	Tongataboo.
61	58-58 ^b	trochiformis Fer.	Eimeo, &c.
62	53-53 ^b	tumulus Gould.	Feejee Islands.
63	54	tentoriolum Gould.	Upolu.
64	32, 32 ^a	nitidiuscula Sowb.	Madeira.
64	43-43 ^b	gulosa Gould.	Mawana, N. S. Wales.
64		pedestris .	
71	70, 70 ^a	Streptaxis contusa Fer.	
		<i>Helix contundata</i> Fer.	
		<i>contusa</i> Fer.	
72	82, 82 ^a	Bulimus morosus Gould.	Feejee Islands.
72	84, 84 ^a	elobatus Gould.	Feejee Islands.
73	83, 83 ^a	pruninus Gould.	Madeira Island.
74	79, 79 ^a	prolatus Gould.	Santiago, Chili.
75	80, 80 ^a	ciliatus Gould.	Organ Mts., Brazil.
76	87-87 ^b	junceus Gould.	Tahiti, &c.

[Gould, Exploring Expedition.]

Pa.	Fig.		
77	86, 86 ^a	Bulimus egregius Pfr.	Rio Janeiro.
		<i>B. hybridus</i> Gould.	
78	75	auris-leporis Brug.	Rio Janeiro.
		<i>B. lagotis</i> Mke.	
		<i>Auricula leporis</i> Mke.	
		<i>Helix auris-leporis</i> Fer.	
		<i>Pupa auris-leporis</i> .	
		<i>Stenostoma auritura</i> Spix.	
		<i>Otostomus lagotis</i> Beck.	
78	76, 76 ^a	proteus Br.	Chili.
		<i>B. sordidus</i> Lam.	
		<i>Buliminus proteus</i> Beck.	
79	81-81 ^b	Chilensis Lam.	Chili.
		<i>Achatina Chilensis</i> Less.	
		<i>Bulimus granulosus</i> Br.	
		<i>Bulimulus graniger</i> Beck.	
79	85-85 ^b	Shongii Less.	Bay of Islands, N. Z.
80	77	fulguratus Jay.	Feejee Islands.
81	78	malleatus Jay.	Feejee Islands.
81	88, 88 ^a	Partula conica Gould.	Upolu, &c.
82	89, 89 ^a	zebrina Gould.	Upolu, &c.
83	90, 90 ^a	pusilla Gould.	Metia Island.
84	91	Taheitana Brug.	Honolulu.
		<i>P. auriculata</i> Brod.	
		<i>Bulimus auriculatus</i> Pfr.	
85	92	varia Brod.	
		<i>Bulimus varius</i> Pfr.	
85	93	Vanikorensis Quoy & Quim. (<i>Helix</i>).	
		<i>Bulimus Vanikorensis</i> Desh.	
85	94, 94 ^a	Achatinella marmorata Gould.	Maui.
86	95	nubilosa Gould.	Maui.
87	96, 96 ^a	ellipsoidea Gould.	Maui.
87	100, 100 ^a	acuminata Gould.	Kauai.
88	97, 97 ^a	accincta Mighels.	Oahu.
		<i>A. Sandwicensis</i> .	
89	98, 98 ^a	guttula Gould.	Maui.
90	99, 99 ^a	cerealis Gould.	Waianai, Oahu.
91	105-105 ^b	Balea peregrina Gould.	New Zealand.
91	101	Megaspira elata Gould.	Brazil.
		<i>Bulimus elatior</i> (var. γ)	
92	103-103 ^b	Vertigo tantilla Gould.	[Pfr. Tahiti.
93	104-104 ^e	Pupa peponum Gould.	Oahu, &c.
94	114-114 ^c	Helicina uberta Gould.	Oahu, &c.
		<i>H. constricta</i> Pfr.	

[Gould, Exploring Expedition.]

Pa.	Fig.		
95	112	Helicina Maugeriæ Gr.	Tahiti, &c.
95	111, 111 ^a	beryllina Gould.	Feejee Islands.
96	113-113 ^a	pallida Gould.	Feejee Islands.
97	106-106 ^a	fulgora Gould.	Manua.
98	107-107 ^b	musiva Gould.	Manua, &c.
99	108-108 ^a	laciniosa Mighels.	Kauai, &c.
99	109-109 ^a	trochlea Gould.	Metia Island.
100	110-110 ^a	multicolor Gould.	Tahiti, &c.
101	116, 116 ^a	Cyclostoma tiara Gould.	Upolu.
102	117-117 ^b	strigatum Gould.	Upolu.
103	118-118 ^b	plicatum Gould.	Upolu.
104	119, 119 ^a	obligatum Gould.	Metia Island.
105	124-124 ^b	diatretum Gould.	Feejee Islands.
105	121-121 ^b	roseum Gould.	Feejee Islands.
106	120-120 ^b	terebrale Gould.	Tahiti, &c.
107	122, 122 ^a	vallatum Gould.	Tonga Island.
108	123-123 ^b	scitulum Gould.	Tahiti, &c.
109	126-126 ^b	Truncatella Vitiana Gould.	Feejee Islands.
110	125-125 ^b	aurantia Gould.	Mangsi Island.
110	127-127 ^b	porrecta Gould.	Tahiti.
111	128-128 ^b	rostrata Gould.	Rio Janeiro.
114	133	Planorbis kermatoides D'Or.	Lima.
114		ferrugineus Spix.	
115	134-134 ^b	Physa venustula Gould.	Lima.
116	136-136 ^b	tabulata Gould.	Bay of Islands, N. Z.
117	137, 137 ^a	gibbosa Gould.	Paramatta, N. S. W.
118	139-139 ^b	sinuata Gould.	Feejee Islands.
118	140-140 ^b	reticulata Gould.	Sandwich Islands.
120	135	rivalis Pot. & Mich.	Lima.
122	142-142 ^b	Limnea volutata Gould.	Oahu.
123	145, 145 ^a	Dombeya fasciata Gould.	Chili.
124	143, 143 ^a	obovata Gould.	Chili.
124	144, 144 ^a	fluminea D'Orb.	Patagonia.
		<i>Chilina fluminea</i> Gray.	
		<i>Voluta fluminea</i> Maton.	
125	495-495 ^b	Ancylus aduncus Gould.	Madeira.
126	150-150 ^b	Amnicola badia Gould.	Tipoona, New Zealand.
127	151-151 ^b	gracilis Gould.	Tipoona, New Zealand.
128	147, 147 ^a	Ampullaria columellaris Gld.	Mayras, Peru.
129	149-149 ^b	Amnicola corolla Gould.	Banks Pen, New Zeal'd.
		<i>Melania corolla</i> Gould.	
130	152-152 ^b	Cingula Peteningensis Gould.	Rio de Janeiro.
130	146-146 ^b	Melanopsis Zeylandica Gould.	New Zealand.
132	154-154 ^c	cybele Gould.	Feejee Islands, &c.

[Gould, Exploring Expedition.]

Page.	Fig.		
133	153-153 ^b	Melanopsis tetrica Gould.	Feejee Islands, &c.
133	155-155 ^b	terpsichore Gould.	Feejee Islands, &c.
134	156-156 ^c	scipio Gould.	Feejee Islands, &c.
136	159-159 ^c	lutosa Gould.	Upolu.
137	161-161 ^b	corporosa Gould.	Tahiti.
138	157-157 ^b	Vainafa Gould.	Upolu.
139	162, 162 ^a	furforosa Gould.	Manilla.
140	158-158 ^b	scitula Gould.	Upolu.
142	160-160 ^c	perpinguis Hinds.	Feejee Islands, &c.
145	170-170 ^b	Cerithium sordidulum Gould.	
146	169-169 ^b	invaginatum Gould.	Feejee Islands.
147	167-167 ^b	aduncum Gould.	Mindanao.
148	168, 168 ^a	irroratum Gould.	
148	174-174 ^d	cælatum Couth.	Orange Har., T. d. Fuego.
150	172-172 ^b	pusillum Gould.	Sandwich Islands.
151	171-171 ^b	egenum Gould.	Wilson's Island.
152	173-173 ^b	janthinum Gould.	Clermont-Tonnere.
153		Pelex Gould (n. g.)	
153	176-176 ^d	lateralis Gould.	Wangarara, N. Zealand.
155	177-177 ^b	Navicella Freycineti Recl.	Macassar.
156	178, 178 ^a	porcellana Chemn.	
		<i>N. elliptica</i> Lam.	
156	187-187 ^b	Neritina cholericæ Chemn.	Feejee Islands.
157	191, 191 ^a	porcata Gould.	Samoa Island.
158	188, 188 ^a	chrysocolla Gould.	Upolu.
159	192, 192 ^a	amœna Gould.	
160	190, 190 ^a	siderea Gould.	Upolu.
161	182, 182 ^a	canalis Sowb.	Society Island.
161	179	granosa Sowb.	Sandwich Islands.
161	181	Taitensis Soul.	
162	180	Lamarckii Desh.	
		<i>N. auriculata</i> Sowb.	
162		Nuttallii Recl.	
163	183	gagates Desh.	
163	193	undata Desh.	
		<i>Clithon undatus</i> Less.	
		<i>N. spinosa</i> Sowb.	
163	184, 184 ^a	cornea Linn.	Feejee Islands.
		<i>N. ampullaria</i> Less.	
		zebra Chemn.	
		dubia Chemn.	
164	185, 185 ^a	ruginosa Recl.	Samoa and Friendly Isl.
164	191	caffra Gray.	Tahiti.

[Gould, Exploring Expedition.]

Page.	Fig.		
165		Neritina Turtoni Ree.	Feejee Islands.
		<i>N. helvola</i> Gould.	
165	197, 197 ^a	Nerita musiva Gould.	
166	195, 195 ^a	<i>crassa</i> Gould.	
167		<i>plicata</i> Linn.	
167	194, 194 ^a	<i>albicilla</i> Linn.	
167	196, 196 ^a	<i>undata</i> Linn.	
169	198-198 ^c	Turbo setosus Chemn.	Clermont Tonnere.
170	199-199 ^b	<i>argyrostomus</i> Chemn.	
170	200	<i>sparverius</i> Gmel.	
171	201, 201 ^a	<i>petholatus</i> Linn.	
171	212, 212 ^a	<i>niger</i> Gray.	Callao and Valparaiso.
171	202-202 ^b	confragosus Gould.	Dean's Island, Paumatu
173	203-203 ^d	<i>sirius</i> Gould.	New Holland.
174	204-204 ^e	<i>laciniatus</i> Gould.	Manilla.
175	221-221 ^c	Trochus bicrenatus Gould.	
175	210-210 ^c	<i>gradatus</i> Gould.	
176	220-220 ^b	<i>circumsutus</i> Gould.	Madagascar?
177	209-209 ^b	<i>jucundus</i> Gould.	New Zealand.
178	216-216 ^c	<i>elisus</i> Gould.	Singapore.
179	217-217 ^c	<i>acinosus</i> Gould.	New Zealand.
180	205-205 ^b	<i>pruninus</i> Gould.	Aukland Island.
181	206-206 ^b	<i>texturatus</i> Gould.	
182	211	<i>ater</i> Less.	Valparaiso and Callao.
182	213	Araucanus D'Orb.	Valparaiso, &c.
183		<i>mæstus</i> Jonas.	
183	223, 223 ^a	<i>colubrinus</i> Gould.	Funchal.
184	215-215 ^b	<i>tantillus</i> Gould.	Sandwich Islands.
186	208-208 ^b	<i>pupillus</i> Gould.	New Zealand.
187	218-218 ^c	<i>amœnus</i> Gould.	Feejee Islands.
188	219-219 ^c	<i>spurcus</i> Gould.	[Gould. Madeira Island.
189	224-224 ^d	(Monodonta) <i>atropurpureus</i> Tutuila.	
190	225-225 ^c	<i>instrictus</i> Gld.	Pacific Ocean.
191	222-222 ^b	<i>rotellinus</i> Gld.	Mangsi.
192	227, 227 ^a	(Bembicium) <i>squamiferus</i> Koch.	
192	228-228 ^c	Margarita Magellanica Gld.	Orange Har., T. d. Fuego.
193	230-230 ^b	<i>persica</i> Gould.	Cape Horn.
194	229-229 ^c	<i>conica</i> D'Orb.	Patagonia. [30' W.
195	252, 252 ^a	Litiopa decussata Gould.	Lat. 37° 40' N., long. 54°
196	226-226 ^c	Solarium egenum Gould.	New Zealand.
198	240-240 ^b	Littorina caliginosa Gould.	Tierra del Fuego.
200	239-239 ^b	<i>acuminata</i> Gould.	Mangsi Island.
202	235, 235 ^a	<i>obesa</i> Sowb.	Clermont Tonnerre, &c.
202	234, 234 ^a	<i>pyramidalis</i> Quoy & Gaim.	

[Gould, Exploring Expedition.]

- Page. Fig.
- 203 233, 233^a *Littorina grandinosa* Desh.
Trochus grandinosa Chemn.
bullatus Martyn.
Monodonta papillosa Lam.
- 203 *Peruviana* Gray. Valparaiso, &c.
Turbo zebra Wood. [Lam.
Phasianella Peruviana
- 203 251-251^b *Planaxis lineolatus* Gould. Wilson's Island.
- 204 242-242^b *Melampus mucronatus* Gould. Raraka Island.
- 205 245-245^b *Scalaria gracilentia* Gould. Mangsi Island.
- 206 244-244^b *texturata* Gould.
australis Lam.
- 207 246-247 *Stylifer acicula* Gould. Feejee Islands.
- 208 248, 248^a *Haliotis crispata* Gould. New Holland.
- 209 249-249^b *Stomatella tumida* Gould. Singapore, &c.
- 210 250-250^b *decolorata* Gould. Mangsi Island.
- 213 255, 255^a *Natica dilecta* Gould. Rio Negro, Patagonia.
- 215 257, 257^a *soluta* Gould. South America.
- 215 *Ampullacea Busbyi* Gould. New Zealand.
Helix busbyi Gray.
- 216 259-259^c *Sigaretus antarcticus* Couth. Orange Harbor.
- 217 260-260^b *prætenus* Gould. Orange Harbor.
- 217 261-261^c *Rissoa ambigua* Gould. Clermont Tonnerre.
Pyramidella ambigua Gld.
- 218 263-263^b *Tornatella bullata* Gould. Patagonia.
- 220 267, 267^a *Bulla parallela* Gould.
- 220 264 *bifasciata* Mart. & Ch. Feejee Islands.
B. ampulla (var.) Linn.
- 221 266, 266^a *rubiginosa* Gould. Rio de Janeiro.
- 222 265-265^d *diaphana* Gould. Rio de Janeiro.
- 223 268 *Aplysia pulmonica* Gould. Tutuila.
- 223 269, 269^a *Bursatella lacinulata* Gould. Rio de Janeiro.
- 224 *Stylocheilus* Gould. (n. g.)
- 225 270-270^b *lineolatus* Gould. Honolulu.
- 226 271 *quercinus* Gould. Feejee Islands.
- 226 272 *Janthina exigua* Lam. Lat. 18° 20' S., long. 132°
- 227 273 *fragilis*. [W.]
- 227 276 *Pyrula deformis* Lam. [Kein. Tutuila.
Purpura abbreviata (var.)
- 227 277-277^b *Fusus Geversianus* Pullas.
Buccinum fimbriatum Mart.
Murex Magellanicus Gmel.
- 228 278 *laciniatus* Martyn. Orange Harbor.
- 229 279-279^c *crispus* Gould. Orange Harbor.

[Gould, Exploring Expedition.]

Page.	Fig.		
230	280	Fusus decolor Phil.	Orange Harbor.
230	281, 281 ^a	plumbeus Phil.	
231	282-282 ^b	liratus Couth.	Orange Harbor.
232	283, 283 ^a	incisus Gould.	New Zealand?
235	286, 286 ^a	sublatus Gld. [sus Gld.	
236	287, 287 ^a	Murex (Trophon) fructico-	
237	288, 288 ^a	Monoceros imbricatum Lam.	Orange Harbor.
		<i>Buccinum calcar</i> Martyn.	
		<i>Monoceros breve</i> Sowb.	
237	290, 290 ^a	Turbinella cornigera Lam.	
238	289	amplustre Kien.	Honden Island.
		<i>Buccinum amplustre</i> Mart.	
		<i>Murex amplustre</i> Chemn.	
238	291	armata Brod.	Honden Island.
239	292	Triton variegatum Lam.	Tutuilla, &c.
		<i>Murex tritonis</i> Linn.	
239	295	tuberosum Lam.	Lebuka.
240		productum Gould.	Pacific.
		<i>T. tuberosum</i> Rumph. &c.	
240	293	anus Lam.	Lebuka.
240	294, 294 ^a	distortum Sch. & Wagn.	Paumotu Island.
241	298-298 ^c	cancellatum Lam.	
		<i>Murex Magellanicus</i> Chemn.	
242	299	Ranella bufonia Gmel.	Gardner's Isl., Paumotu
242	300, 300 ^a	gyrinus Linn.	Tutuilla. [Isl.
		<i>Murex gyrinus</i> Linn.	
		<i>R. ranina</i> Lam.	
242	301-301 ^b	vexillum Sowb.	Orange Har., T. d. Fuego.
243	302, 302 ^a	ventricosa Brod.	
244	309, 309 ^a	Purpura tæniata Powis.	Honden Island.
245		armigera Lam.	Paumotu Group.
245		scobina Quoy & Gaim.	New Zealand.
246		succincta Lam.	
		<i>Buccinum orbita</i> Chemn.	
		<i>P. orbita</i> Sowb.	
246	304, 304 ^a	elongata Blainv.	Metia Island.
		<i>P. fenestrata</i> Quoy & Guim.	
246	306	violacea Kien.	Feejee Islands.
		<i>Purpula neritoidea</i> Lam.	
		<i>Purpura neritoidea</i> Qu. & G.	
247	305	Ricinula tuberculata Blainv.	Paumotu Group.
247		horrida Lam.	Paumotu Group.
247	307	arachnoides Lam.	Paumotu Group.
248	308	clathrata Lam.	Paumotu Group.

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Page.	Fig.		
248	312, 312 ^a	Pleurotoma seminifera Gld.	
249	311, 311 ^a	<i>tigrina</i> Lam.	Upolu.
250	313-313 ^a	Mangelia cithara Gould.	Feejee Islands.
250	314-314 ^b	Terebra crenulata Linn.	
251		<i>dimidiata</i> Linn.	
251	315	Babylonia Lam.	
251	316	<i>lævigata</i> Gray.	
251	317	<i>subulata</i> Linn.	
251	318	<i>cærulescens</i> Lam.	
252	319, 319 ^a	Buccinum velatum Gould.	Mindanao.
253	320, 320 ^a	<i>funereum</i> Gould.	New Zealand.
255	313, 313 ^a	<i>farinosum</i> Gould.	Kauai.
256	324, 324 ^a	Nassa musiva Gould.	Cape de Verd Island.
257	325-325 ^b	<i>lurida</i> Gould.	Tutuilla.
258	326-326 ^c	<i>curta</i> Gould.	Samoa Island.
259	327-327 ^b	<i>cinctella</i> Gould.	Pacific Islands.
260	328-328 ^b	<i>casta</i> Gould.	Pacific Islands.
261	329-329 ^b	<i>acinoso</i> Gould.	
262	330-330 ^b	<i>paupera</i> Gould.	Pacific Islands.
265	336, 336 ^a	<i>lilacina</i> Gould.	Clermont Tonnerre.
266	333, 333 ^a	<i>muricata</i> Quoy.	
266	334	<i>granifera</i> Kien.	
268	338, 338 ^a	Columbella valga Gould.	Brazil?
269	339-339 ^b	<i>castanea</i> Gould.	Rio Janeiro.
270	341, 341 ^a	<i>mendicaria</i> Linn.	
270	342	<i>ligula</i> Ducl.	
270	352	Mitra vitellina Gould.	East Indies?
271	355, 355 ^a	<i>cophina</i> Gould.	Singapore.
272	354, 354 ^a	<i>rorata</i> Gould.	
273	351-351 ^b	<i>capillata</i> Gould.	Madeira.
274	356-356 ^b	<i>encausta</i> Gould.	Feejee Islands.
275	353-353 ^b	<i>fidicula</i> Gould.	
276	344 bis.	<i>ambigua</i> Swains.	
276	344, 344 ^a	<i>adusta</i> Lam.	Vincennes Island.
276	345	<i>acuminata</i> Swains.	Raraka.
		<i>M. lutea</i> Quoy.	
277	346, 346 ^a	<i>virgata</i> Ree.	Clermont Tonnerre.
		<i>M. retusa</i> (var. Gray.)	
277	347	<i>maculosa</i> Ree.	
277	348	<i>nodosa</i> Swains.	Clermont Tonnerre.
		<i>M. fraga</i> Quoy & Gaim.	
		<i>tuberculata</i> Kien.	
278	349	<i>elegans</i> Ree.	Feejee Islands.

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Page.	Fig.		
278	350	Mitra exasperata Chemn. <i>M. torulosa</i> Lam.	Feejee Islands.
278	342	<i>filosa</i> Born.	Feejee Islands.
278	357	Voluta Magellanica Gmel. <i>V. ancilla</i> Lam.	Orange Harbor.
279		<i>ancilla</i> Sol. <i>V. Magellanica</i> Lam. <i>gracilis</i> Wood's Sup.	Cape Horn.
280	359	Melo Broderipii Gray. <i>M. regius</i> Brod.	China Seas.
281	380	Oliva carneola Gmel.	Feejees.
281	370	Cypræa testudinaria Linn. <i>tigris</i> Linn.	Upolu, &c. Feejees, &c.
282	371, 371 ^a	<i>reticulata</i> Martyn. <i>C. maculata</i> Barnes. <i>histrio</i> Kien.	Paumotu Group.
282	372, 372 ^a	<i>fimbriata</i> Gmel.	Paumotu Group.
283	374, 374 ^a	<i>anellus</i> Linn.	Tutuilla.
283	373, 373 ^a	<i>caurica</i> Linn.	Tutuilla.
283		<i>felina</i> Gmel.	Tutuilla.
284		<i>errones</i> Linn. <i>C. olivacea</i> Lam.	Lebuka.
284	376	Humphreysii Gray. <i>C. lutea</i> Desh.	Sandalwood Bay.
284	375, 375 ^a	<i>poraria</i> Linn.	Benga Island.
284		<i>carneola</i> Linn.	Lebuka.
285	369	<i>lynx</i> Linn.	Feejee Islands.
285	378	<i>eburna</i> Barnes.	Feejee Islands, &c.
285	377	<i>arenosa</i> Gray.	Tahiti.
286	379	<i>obvelata</i> Lam.	Tutuilla.
286	367, 367 ^a	Conus dilectus Gould.	Feejee Islands.
287	361	<i>vexillum</i> Mart.	Tutuilla.
287	364, 364 ^a	<i>miles</i> Mart.	Honden Island.
288		Hebraeus Linn.	Clermont Tonnerre.
288	365	<i>nanus</i> Brod.	Tutuilla.
289	363	<i>sponsalis</i> Brug.	Clermont Tonnerre.
289	362, 362 ^a	<i>miliaris</i> Brug.	Clermont Tonnerre.
290	366	<i>minimus</i> Linn.	Pacific Island.
290	382, 382 ^a	Peronia indolens Couth.	Rio de Janeiro.
291	383-383 ^b	<i>irrorata</i> Gould.	Bay of Islands, N. Z.
291	384, 384 ^a	<i>acinosa</i> Gould.	Feejee Islands.
292	386-386 ^c	<i>marginata</i> Couth.	Orange Harbor.
293	385, 385 ^a	<i>corpulenta</i> Gould.	Direction Isl., Feejees.
293	387-387 ^c	Doris vermicelli Gould.	Valparaiso.

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Page.	Fig.		
294	388-388 ^e	<i>Doris plumulata</i> Gould.	Orange Harbor.
295	389-389 ^e	<i>luteola</i> Gould.	Orange Harbor.
296	390-390 ^e	<i>smaragdina</i> Gould.	Paumotu Group.
295	391, 391 ^a	<i>petechialis</i> Gould.	Oahu.
297	392-392 ^b	<i>lilacina</i> Gould.	Oahu.
298	393-393 ^c	<i>cerebralis</i> Gould.	Feejee Islands.
299	394, 394 ^a	<i>aurita</i> Gould.	Feejee Islands.
300	395-395 ^b	<i>spiraculata</i> Gould.	Feejee Islands.
301	396-396 ^e	<i>superba</i> Gould.	Tutuilla.
302	397-397 ^b	<i>cardinalis</i> Gould.	Honolulu.
303	398, 398 ^a	<i>sumptuosa</i> Gould.	Tonga Island.
304	399-399 ^e	<i>aspersa</i> Gould.	Paumotu.
304	400-400 ^e	<i>dorsalis</i> Gould.	Eimeo.
305	401-401 ^d	<i>Eolis attenuatus</i> Gould.	Chili.
306	402-402 ^c	<i>cyanella</i> Gould. [Gould,	Chili.
307	407-407 ^e	<i>Placobranchus ianthobaptus</i>	Honolulu.
307	406, 406 ^a	<i>Diphyllidia rubida</i> Gould.	Honolulu.
308	405, 405 ^a	<i>Elysia lobata</i> Gould.	Honolulu.
308	403-403 ^c	<i>Tritonia cucullata</i> Gould.	Rio Janeiro.
311	408, 408 ^a	<i>Umbrella Indica</i> .	Sandwich Islands.
312	437, 437 ^a	<i>Chiton quercinus</i> Gould.	New South Wales.
315	432, 432 ^a	<i>incanus</i> Gould.	New South Wales.
316	419-419 ^b	<i>pruinusus</i> Gould.	Rio Janeiro.
317	430	<i>jugosus</i> Gould.	New South Wales.
318	413-413 ^e	<i>viridulus</i> Gould.	Orange Harbor.
319	428, 428 ^a	<i>fruticosus</i> Gould.	New South Wales.
320	431, 431 ^a	<i>platessa</i> Gould.	New South Wales.
321	433-433 ^b	<i>dentiens</i> Gould.	
322	423-423 ^b	<i>interstinctus</i> Gould.	
323	426, 426 ^a	<i>vespertinus</i> Gould.	
324	412-412 ^d	<i>puniceus</i> Couch.	Tierra del Fuego.
325	414, 414 ^a	<i>jaspideus</i> Gould.	Callao.
326	418-418 ^b	<i>asperrimus</i> Couch.	Rio Janeiro.
326	411-411 ^e	<i>castaneus</i> Couch.	Orange Harbor.
327	434-434 ^b	<i>confossus</i> Gould.	Feejee Islands.
328	435-435 ^b	<i>petaloides</i> Gould.	Sandwich Islands.
329	417	<i>disjunctus</i> Fremb.	Villamar, Chili.
329	415	<i>atratus</i> Sowb.	Orange Harbor.
330		<i>lignosus</i> Gould.	
		<i>C. Merckii</i> Midd.	
331	420-420 ^b	<i>violaceus</i> Quoy & Gaim.	New Zealand.
332	422	<i>Peruvianus</i> Lam.	
332	416	<i>lineolatus</i> Fremb.	Valparaiso.
332		<i>australis</i> Sowb.	

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Page.	Fig.		
333	410	Chiton Zelandicus Quoy & Gaim.	
333	429, 429 ^a	Chitonellus fasciatus Quoy &	
333	421	Chiton Janeirensis Swb. [Ga. Rio Janeiro.	
333	427	Coquimbensis Fremb.	
334	452-452 ^b	Patella talcosa Gould.	Hawaii.
335	448, 448 ^a	citrullus Gould.	Funchal, Madeira.
336	446-446 ^b	luctuosa Gould.	New Zealand.
337	449-449 ^c	sagittata Gould.	Feejee Islands.
338	439-439 ^b	piperata Gould.	Cape de Verd Isl., Mad.
339	440-440 ^e	Paumotensis Gould.	Paumotu Island.
340	441-441 ^b	illuminata Gould.	Auckland Island.
341	442, 442 ^a	cymbularia Lam.	Lat. 47° 80' S., long. 60°
		<i>P. mytilina</i> Sch. & Wagn.	[W. (floating.)
		<i>cymbuloides</i> D'Orb.	
341	444, 444 ^a	deaurata Gmel.	Orange Harbor.
		<i>P. Magellanica</i> Gmel.	
		<i>fusca</i> Dill.	
343	443, 443 ^a	ferruginea Wood.	Orange Harbor.
343		tramoserica Chemn.	New Zealand.
345	447-447 ^b	cinnamomea Gould.	New South Wales.
345	451	argentata Gray.	Valparaiso.
347	450-450 ^b	(Lottia) araneosa Gould.	Sooloo Sea.
350	453-453 ^c	Lottia cymbiola Gould.	Valparaiso.
352	460, 460 ^a	zebrina Less.	Vigna del Mar, Valpa-
		<i>L. variabilis</i> Gray.	[raiso.
353	459, 459 ^a	viridula Lam. (<i>Patella</i> .)	Valparaiso.
355	461-461 ^b	onychina Gould.	Rio Janeiro?
356		scutum Esch.	Valparaiso.
		<i>Acmæa persona</i> Esch.	
		<i>radiata</i> Esch.	
		<i>anceylus</i> Esch.	
356		? scurra Less.	Valparaiso.
357	467-467 ^b	Siphonaria cornuta Gould.	Sooloo Sea.
358	465-465 ^b	inculta Gould.	New Zealand.
359	468-468 ^b	normalis Gould.	Sandwich Islands.
360	466-466 ^a	lepida Gould.	Rio Janeiro.
361	463-463 ^b	Lessoni Blainv.	Cape Horn.
362	464-464 ^b	antarctica Couth.	
363	462-462 ^b	lateralis Couth.	Orange Harbor.
364	473-473 ^d	Fissurella occidens Gould.	Callao.
365	474-474 ^e	cruciata Gould.	Sooloo Sea.
366	472-472 ^c	verna Gould.	Cape de Verd Islands.
367	469, 469 ^a	picta Lam.	Orange Harbor.
370	477-477 ^c	Rimula conica D'Orb.	Cape Horn.

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Page.	Fig.		
371	478-478 ^c	Fissurella cognata Gould.	Orange Harbor.
372	493-493 ^c	Emarginula aspera Gould.	Sydney, N. S. Wales.
373	492-492 ^a	<i>ossea</i> Gould.	Feejee Islands.
373	494-494 ^c	<i>cinerea</i> Gould.	Feejee Islands.
374	491-491 ^c	<i>fungina</i> Gould.	Samoa Island.
377	479	<i>costata</i> Desh. [rum Sowb.	
378	483-483 ^c	Leptoconchus madrepora- Samoa Island.	
		<i>Purpura monodonta</i> Q. & G.	
		<i>madreporarum</i> Sb.	
379	490-490 ^c	Hipponix imbricata Gould.	Sandwich Islands.
380	487-487 ^d	Calyptrea chlorina Gould.	Cape de Verd Islands.
381	488-488 ^c	<i>radiosa</i> Gould.	Sooloo Sea.
382	489-489 ^b	Pileopsis crystallina Gould.	
383	486-486 ^d	Capulus sagittifer Gould.	
384	497-497 ^b	Pholas patula Gould.	Eastern Seas.
		<i>P. latissima</i> Sowb.?	
386	499	Panopæa antarctica Gould.	Rio Negro, Patagonia.
388	502-502 ^b	Solen scalprum Gould.	Singapore.
389	535-535 ^b	Cypricardia rosea Gould.	Feejee Islands.
390	504-504 ^b	Mactra cuneola Gould.	Callao.
391	503-503 ^b	<i>deluta</i> Gould.	New Zealand.
392	505-505 ^b	<i>marcida</i> Gould.	Orange Harbor.
394	496, 496 ^a	<i>debilis</i> Gould.	Singapore.
395		<i>triangularis</i> Lam.	Feejee Islands.
396	500-500 ^b	Pandora cistula Gould.	Patagonia.
398	510-510 ^b	Osteodesma Brasiliense Gld.	Rio Janeiro.
399	512, 512 ^a	Amphidesma croceum Gould.	Callao?
400	511-511 ^b	Mesodesma mundum Gould.	Sooloo Sea.
401	587-587 ^c	Erycina (Poronia) ovata Gld.	Sandwich Islands.
402	586-586 ^b	(<i>Kellia</i>) <i>quadrata</i> Gould.	Feejee Islands?
403	513-513 ^b	Psammobia florida Gould.	Illawarra, N. S. Wales.
404	519-519 ^b	Tellina concentrica Gould.	Feejee Islands.
405	518-518 ^b	<i>tithonia</i> Gould.	Sooloo Sea.
406	515-515 ^b	<i>compta</i> Gould.	Loo Choo Islands.
		<i>T. decora</i> Gould.	
407	517-517 ^b	<i>exulta</i> Gould.	Feejee Islands.
408	514-514 ^b	<i>lauta</i> Gould.	
409	516-516 ^c	<i>perula</i> Gould.	Feejee Islands.
410	520-520 ^b	Donax pallidus Gould.	Singapore.
411	521, 521 ^a	<i>tinctus</i> Gould.	Mergin Archipelago?
412	522-522 ^b	<i>croceatus</i> Gould.	Mangsi Island, Sooloo
412	524-524 ^b	Lucina inculta Gould.	New Zealand. [Sea.
413	528-528 ^b	<i>lenticula</i> Gould.	Rio Janeiro.
414	525-525 ^b	<i>vesicula</i> Gould.	Tonga Island.

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Page.	Fig.		
416	523-523 ^b	Lucina ramulosa Gould.	Paumotu Island.
		<i>L. fibula</i> Rve.	
416	533	Cardita procera Gould.	Rio Negro, Patagonia.
419	537, 537 ^a	Venus toreuma Gould.	Māngsi Island, Sooloo Sea.
422	536, 536 ^a	Arthemis lambata Gould.	Bay of Islands, N. Z.
423		Venus calcarea Gould.	New Zealand.
423	560-560 ^b	Arca sobria Gould.	
424	539-539 ^c	Nucula sulculata Gould.	Cape Horn.
425	526-526 ^b	Cyclas egregia Gould.	New South Wales.
427	529-529 ^b	Cyrena debilis Gould.	New Holland.
428	542-542 ^c	Unio lutulentus Gould.	New Zealand.
429	543-543 ^b	<i>profugus</i> Gould.	New South Wales.
430	540-540 ^b	<i>dorsuosus</i> Gould.	Eastern Asia.
431	541-541 ^c	<i>verecundus</i> Gould.	Manilla.
434	548-548 ^b	Anodonta puberula Gould.	Peru.
		<i>Anodon glauca</i> Gould.	
437	555	Avicula margaritifera (Linn.) Roissy.	
		<i>Meleagrina margaritifera</i> Lam.	
438	554	<i>nigra</i> Gould.	Singapore.
439	553, 553 ^a	<i>vidua</i> Gould.	Feejee Islands.
440	550, 550 ^a	<i>lurida</i> Gould.	Feejee Islands.
441	551, 551 ^a	<i>fucata</i> Gould.	New Zealand.
442	552-552 ^b	<i>glabra</i> Gould.	New Zealand.
443	549-549 ^b	<i>pica</i> Gould.	Samoa Island.
444	559, 559 ^a	Perna argillacea Gould.	
445	558, 558 ^a	<i>torva</i> Gould.	Sandwich Islands.
445	556, 556 ^a	<i>nana</i> Gould.	Feejee Islands.
446	557-557 ^c	<i>eremita</i> Gould.	Paumotu Island.
447	584-584 ^b	Crenatula pergaminea Gould.	Feejee Islands.
448	574	Pinna senticosa Gould.	New Zealand.
449	565, 565 ^a	Mytilus divaricatus Gould.	China Seas.
450	566, 566 ^a	<i>algosus</i> Gould.	Feejee Islands.
451	564, 564 ^a	<i>pyriformis</i> Gould.	South Seas.
452	562, 562 ^a	(<i>Modiola</i>) <i>areolatus</i> Gld.	New Zealand.
454	563, 563 ^a	(<i>Modiola</i>) <i>hepaticus</i> Gld.	Feejee Islands.
455	585-585 ^c	(<i>Modiolarca</i>) <i>pusillus</i> Gd.	Tierra del Fuego.
456	571-571 ^b	Pecten lætus Gould.	New Zealand.
459	568-568 ^c	Gaimardia trapesina Gould.	Lat. 47° 30' S., long. 59°
		<i>Modiola trapesina</i> Lam.	53' W., and Orange Harbor.
461	577-577 ^b	Ostrea glomerata Gould.	New Zealand.
462	576-576 ^b	<i>circumsuta</i> Gould.	Feejee and Samoa Isl'ds.
463	578, 578 ^a	<i>discoidea</i> Gould.	
464	575, 575 ^a	<i>mordax</i> Gould.	Feejee Islands.

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Page.	Fig.		
465	580-580 ^a	<i>Crania radiosa</i> Gould.	Rio Janeiro.
469	583-583 ^a	<i>Terebratula Patagonica</i> Gld.	Patagonia.
470	585	<i>Argonauta geniculata</i> Gould.	Rio Janeiro.
471	586, 586 ^a	<i>Octopus megalocyathus</i> Gld.	Orange Harbor.
473	587, 587 ^a	<i>mimus</i> Gould.	Callao, Peru.
474	588	<i>tetricus</i> Gould.	New South Wales.
475	589	<i>furvus</i> Gould.	Rio Janeiro.
476	590, 590 ^a	<i>ornatus</i> Gould.	Sandwich Islands.
478	591	<i>pusillus</i> Gould.	Mangsi Island, China Sea.
479	592	<i>mollis</i> Gould.	Samoa Island.
479	593	<i>Sepioteuthis arctipinnis</i> Gld.	Maui, Sandwich Islands.
480	594, 594 ^a	<i>Ommastrephes insignis</i> Gld.	Feejee Islands.
482	595	<i>Onychoteuthis rutulis</i> Gould.	New South Wales.
483	596	<i>brevimanus</i> Gould.	Tutuilla.
485	602-602 ^b	<i>Limacina scaphoidea</i> Gould.	Equatorial Atlantic.
486	601-601 ^b	? <i>cucullata</i> Gould.	An ice island, lat. 66° S.,
487	604, 604 ^a	<i>Hyalæa inermis</i> Gould.	[long. 106° 20' E.
487	603	<i>femorata</i> Gould.	Equatorial Atlantic.
488	605-605 ^b	<i>Cleodora exacuta</i> Gould.	Lat. 44° N., long. 154° W.
489	607, 607 ^a	<i>munda</i> Gould.	Equatorial Atlantic.
490	606	<i>placida</i> Gould.	Equatorial Atlantic.
490	608	<i>falcata</i> Gould.	Pacific Ocean.
491	597	<i>Atlantia primitia</i> Gould.	Equatorial Atlantic.
492	198-198 ^c	<i>cunicula</i> Gould.	West of Sandwich Isl'ds.
493	599-599 ^b	<i>violacea</i> Gould.	Stomach of a Bonito, lat.
			3° S., long. 20° W.
494	600-600 ^b	<i>tessellata</i> Gould.	Stomach of a Bonito, lat.
			3° S., long. 20° W.
495	609	<i>Cynthia amphora</i> Gould.	Rio Janeiro.
495	610	<i>Phallusia violacea</i> Gould.	Rio Janeiro.
496	611	<i>Ascidia monstrans</i> .	Rio Janeiro.
496	612, 612 ^a	<i>Boltenia coacta</i> Gould.	Orange Harbor.

ADDENDA AND CORRIGENDA.

Page.		Page.	
*500	<i>Athoracophorus</i> .	*500	<i>Succinea rotundata</i> .
*500	<i>Vitrina Ruivensis</i> .		<i>S. Newcombi</i> Pfr.
*500	<i>marcida</i> .	*500	<i>venusta</i> .
*500	<i>nitida</i> .	*500	<i>Nanina fricata</i> .
*500	<i>robusta</i> .	*500	<i>Helix intaminata</i> .
*500	<i>caperata</i> .		<i>H. Broderipii</i> Pfr.?
*500	<i>tenella</i> .		<i>Carocolla dealbata</i> Brd.
*500	<i>furva</i> .	*501	<i>spirillus</i> .

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Page.		Page.	
*501	Helix zig-zag. <i>H. rapida</i> Pfr.	*502	Cyclostoma strigatum. <i>C. albida.</i>
*501	cultrata. <i>H. callifera</i> Pfr.	*502	plicatum. <i>C. Apia</i> Recl.
*501	exæquata. <i>H. disculus</i> Pfr.	*502	Planorbis Kermatoides.
*501	bursatella. <i>H. turricula.</i> <i>excavata.</i>	*502	Melania scipio. <i>M. verruculum</i> Morel.?
*501	Troilus. <i>H. Apia.</i> <i>exclusa.</i>	*502	Cerithium invaginatum. <i>C. planum</i> Phil.
*501	nitidiuscula.	*502	aduncum. <i>C. dorsuosum</i> A. Ad.
*501	Bulimus fulguratus.	*502	Pelex lateralis.
*501	Partula zebrina. <i>P. Recluziana</i> Petit.	*502	Neritina caffra.
*502	Vertigo tantilla.	*502	Nerita musiva.
		*503	Turbo laciniatus.
		*503	Trochus tantillus. <i>Margarita angulata</i> A.
		*503	Litiopa decussata. [Ad.
		*503	Obeliscus terebelloides.

Page.	Fig.		
*503	274-274 ^b	Trichotropis pusilla.	Liberia.
*504	296-296 ^b	Triton Brazilianum Gould.	Rio Janeiro.
*506	297-297 ^b	mundum Gould.	Tutuilla.
*507	360, 360 ^a	Phos varicosus.	Philippine Islands.
*508	305, 305 ^a	Ricinula tuberculata.	
*508	323	Buccinum farinosum.	
*508	351	Mitra capillata.	
*508	382	Peronia indolens.	
*508		Mactra debilis.	
*508		Donax crocatus.	
*508		Venus toreuma. <i>V. crebrisulca</i> Sowb.?	
*508		Unio dorsuosus. <i>U. Napeanensis</i> Conr.	
*509		Gaimardia trapesina.	
*509		Ostrea discoidea.	

Dana.—On the question whether Temperature determines the distribution of Marine Species of Animals in Depth: by JAMES D. DANA. (From Am. Journ. Sc., n. s., vol. xv, p. 204. March, 1853.)

Page.		Page.
	Notes on—	
205	<i>Corbula nucleus</i> .	205 <i>Lucina spinifera</i> .
205	<i>Næra cuspidata</i> .	205 <i>Kellia suborbicularis</i> .
205	<i>Thracia phaseolina</i> .	205 <i>Modiola tulipa</i> .
205	<i>Solen pellucidus</i> .	205 <i>barbata</i> .
205	<i>Psammobia feroensis</i> .	205 <i>Arca tetragona</i> .
205	<i>Tellina donacina</i> .	205 <i>lactea</i> .
205	<i>Mactra subtruncata</i> .	205 <i>Pectunculus glycymeris</i> .
205	<i>Lutraria elliptica</i> .	205 <i>Nucula nitida</i> .
205	<i>Cytherea chione</i> .	205 <i>nucleus</i> .
205	<i>Venus ovata</i> .	205 <i>Lima subauriculata</i> .
205	<i>fasciata</i> .	205 <i>Pecten similis</i> .
205	<i>verrucosa</i> .	205 <i>maximus</i> .
205	<i>Artemis lineata</i> .	205 <i>opercularis</i> .
205	<i>Cardium echinatum</i> .	205 <i>varius</i> .
205	<i>Lucina flexuosa</i> .	205 <i>Anomia ephippium</i> .

Conrad.—Descriptions of new species of *Unio*: by T. A. CONRAD. (From Journ. Acad. Nat. Sc. Philadelphia, n. s., vol. ii, pt. 4, p. 295. February, 1854. Vide also, ante, p. 405.)

[The following are the foreign species.—W. G. B.]

Pa.	Pl.	Fig.		
295	xxvi	2	<i>Unio depressus</i> Lam.	Bogan river, Australia.
			<i>U. cultelliformis</i> Conr.	
295	xxvi	3	<i>Balonensis</i> Conr.	
296	xxvi	4	<i>Napeanensis</i> Conr.	
296			<i>depressa</i> D'Orb. is not <i>depressa</i> Lam.	
296	xxvi	6	———.	Australia.
298			Synopsis of the genus <i>Pleiodon</i> .	
298			<i>Pleiodon ovata</i> .	
			<i>Iridina ovata</i> Swains.	
298			<i>Macmurtrei</i> Conr.	
299			<i>splendens</i> .	
			<i>Iridina splendens</i> Chenu.	

Conrad.—Monograph of the genus *Argonauta*, Linné, with descriptions of five new species: by T. A. CONRAD. (From same as last, p. 331.)

Pa.	Pl.	Fig.		
331			<i>Argonauta argo</i> Linn.	Mediterranean.
331			<i>compressa</i> Blainv.	Indian Ocean.
331	xxxiv	1	<i>papyratia</i> Conr.	
332			<i>gondola</i> Dillw.	South Atlantic.
			<i>A. navicula</i> Sol.?	
			<i>Cranchii</i> Leach?	
			<i>haustum</i> Dillw.?	
			<i>raricosta</i> Blainv.	
332			<i>hians</i> Sol.	South Atlantic.
			<i>A. nitida</i> Desh. in Lam.	
332			<i>Oweni</i> Adams.	South Atlantic.
332			<i>nodosa</i> Sol.	Indian Ocean.
			<i>A. tuberculata</i> Shaw.	
			<i>tuberculosa</i> Lam.	
332	xxxiv	2	<i>cornuta</i> Conr.	
332	xxxiv	3	<i>dispar</i> Conr.	
333	xxxiv	4	<i>polita</i> Conr.	
333			<i>Nouryi</i> Lorois.	Pacific Ocean.
334			<i>crassicosta</i> Blainv.	Australia.
334			<i>naviformis</i> .	
			<i>A. argo</i> (var.) Poli.	
334			<i>geniculata</i> Gould.	

Gould.—List of Shells brought home by the U. S. N. Astronomical Expedition: by AUG. A. GOULD. (From the United States Astronomical Expedition to the Southern Hemisphere, during the years 1849–52, Lieut. J. M. Gillis, Superintendent. Vol. ii, p. 263. Washington, 1855. Thirty-third Congress, First Session, House of Representatives, Ex. Doc., No. 121, 4to.)

[No descriptions are given.—W. G. B.]

Page.		Page.	
263	<i>Chiton aculeatus</i> Linn.	263	<i>Chiton Peruvianus</i> Lam.
	Coquimbo.	263	<i>granosus</i> Frembl.
263	<i>spiniferus</i> Frembl.	263	<i>Cumingii</i> Sowb.
263	<i>magnificus</i> Desh.	263	<i>Oliva Peruviana</i> Lam.
263	<i>olivaceus</i> Frembl.		Coquimbo.

Page.		Page.	
263	var. <i>Senegalensis</i> .	263	<i>Cardium fragum</i> .
263	<i>Turbo niger</i> Gray.	263	<i>Conus eburneus</i> .
263	<i>Trochus ater</i> Less.	263	<i>Ricinuia horrida</i> .
263	<i>araucanus</i> D'Orb.	263	<i>albilabris</i> .
263	<i>Murex crassilabrum</i> .	263	<i>Monoceros crassilabrum</i>
263	<i>horridus</i> Sowb.	263	<i>Oliva guttata</i> . [Lam.
263	<i>Boivinii</i> Kten.	263	<i>jaspidea</i> .
263	<i>Fissurella latimarginata</i>	263	<i>elegans</i> .
263	<i>Calyptræa pileus</i> . [Sowb.	263	<i>flammulata</i> ?
263	<i>Peruviana</i> .	263	<i>Strombus gibberulus</i> .
263	<i>Littorina Peruviana</i> Gray.	263	<i>Cerithium lineatum</i> .
263	<i>araucana</i> D'Orb.	263	<i>Cyprea moneta</i> .
263	<i>Bulimus erythrostoma</i>	263	<i>annulus</i> .
263	<i>Acmaea viridula</i> . [Sowb.	263	<i>cicercula</i> .
263	var. <i>Achates</i> .	263	<i>eburnea</i> .
263	<i>scutum</i> D'Orb. & Esch.	263	<i>fimbriata</i> .
263	<i>scurra</i> Less.	263	<i>Venus pannosa</i> Sowb.
263	<i>Triton scaber</i> King.	263	<i>Terebra cinerea</i> .
263	<i>rudis</i> Sowb.	263	<i>striata</i> .
263	<i>Nassa rubricata</i> Gould.	263	<i>Nerita albicilla</i> .
263	<i>Mesodesma donacia</i> Lam.	263	<i>Le Guillouana</i> .
263	<i>Cytherea pannosa</i> ? D'Orb.	263	<i>Neritina canales</i> Sowb.
263	<i>Mytilus</i> ———.	263	<i>Siphonaria Lessoni</i> Blainv.
263	<i>Planorbis</i> ———.	263	<i>Natica uber</i> .
263	<i>Dombeya</i> (<i>Chilina</i>) fluc-	263	<i>Melampus</i> ———.
263	<i>Cardium unedo</i> . [tuosa.		

Jay.—Report on the Shells collected by the Japan Expedition, under the command of Commodore M. C. Perry, U. S. N., together with a list of Japan Shells: by JOHN C. JAY, of New York. (From the Report of Perry's Expedition to Japan, vol. ii, p. 291. Washington, 1856. Thirty-third Congress, Second Session, Senate Ex. Doc., No. 79.)

Pa.	Pl.	Fig.		
292	i	7-10	<i>Mya Japonica</i> Jay.	Volcano Bay, Yedo.
292	i	8, 9	<i>Psammobia olivacea</i> Jay.	Bay of Yedo.
292	ii	1, 2	<i>Cytherea meretrix</i> Linn.	Canton river, Yedo.
293	i	1-6	<i>formosa</i> Sowb.	Lew Chew.
293	ii	3-5, 10	<i>morphina</i> Lam.	Canton river, Lew Chew.
293	ii	6-9	<i>petechialis</i> L'k.	Lew Chew.
293	iii	1, 2	<i>Dipsas plicatus</i> .	Shanghai.

Pa.	Pl.	Fig.		
293	iv	1, 2	Pecten Yessoensis Jay.	Hakodadi.
	iii	3, 4		
294	v	1-6	Helix Simodæ Jay.	Simoda.
294	v	7-9	Perryi Jay.	Yedo.
294	v	10-12	Lymnea Japonica Jay.	Simoda.
295	v	16, 17	Purpura septentrionalis.	Sitka?
295	v	13-15	Bullia Perryi Jay.	Bay of Yedo.

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LIST OF JAPANESE SHELLS.

	Page.	
296 Solen constrictus Lam.	296	Arca obtusa Rve.
296 Panopæa Japonica A. Ad.	296	Nucula Japonica A. Ad.
296 Mya Japonica Jay.	296	mirabilis A. Ad.
296 Corbula erythrodon Lam.	296	Modiola siliqua Phil.
296 Lutraria Sieboldii Desh.	296	Mytilus unguatus Lam.
296 Chemnitzii Phil.	296	Lithophagus caperatus Ph.
296 Mactra veneriformis Desh.	296	Avicula Japonica Dunk.
296 rostralis Desh.	296	Chama Japonica Lam.
296 corbicula Phil.	296	Pecten Yessoensis Jay.
296 pellicula Desh.	296	nobilis Rve.
296 eburnea Phil.	296	Japonicus Gmel.
296 Venerupis Nuttallii Conr.	296	molitus Rve.
296 Psammobia olivacea Jay.	296	pleuronectes Linn.
296 Tellina secta Conr.	296	Ostrea borealis Linn.
296 Astarte Japonica Jay.	296	Terebratula Japonica A. A.
296 Cytherea morphina Lam.	296	angusta A. Ad.
296 petechialis Lam.	296	rubella Sowb.
296 meretrix Linn.	296	Dentalium octogonum Desh.
296 lusoria Lam.	296	Patella lanx Rve.
296 Artemis Japonica Rve.	296	saccharina Linn. [Phil.
296 scabra Phil.	296	Parmophorus emarginatus
296 bilunata Gray.	296	Fissurella Sieboldii Rve.
296 Sieboldii Rve.	296	Tongana Quoy.
296 sericea Rve.	296	Stomatella Japonica A. Ad.
296 biscocta Rve.	296	Sigaretus papillus Recl.
296 orientalis Sowb.	296	Haliotis gigantea Chemn.
296 Venus striata Chemn.	296	Japonica Rve.
296 donacina Chemn.	296	discus Rve.
296 Japonica Gmel.	296	Sieboldii Rve.
296 æquilatera Sowb.	296	Bulla viridis Rve.
296 Tapes decussata Linn.	296	ampulla Linn.
296 Japonica Desh.	296	Helix Perryi Jay.
296 Meroe excavata Hanl.	296	Simodæ Jay.
296 Isocardia tetragona A. Ad.	296	Largillierti Phil.
296 Arca Japonica Rve.	296	

Page.		Page.	
296	<i>Helix Sieboldiana Phil.</i>	297	<i>Cerithium nebulosum Phil.</i>
296	<i>elegantissima Pfr.</i>	297	<i>Fusus fornicatus Gmel.</i>
296	<i>Japonica Pfr.</i>	297	<i>Pyrula ficoides Lam.</i>
296	<i>horiomphala Pfr.</i>	297	<i>Cancellaria nodulifera Sowb.</i>
296	<i>conospira Pfr.</i>	297	<i>Pleurotoma flavidula Lam.</i>
296	<i>Bulimus rimatus Pfr.</i>	297	<i>Murex falcatus Sowb.</i>
296	<i>Clausilia Buschii Küst.</i>	297	<i>inermis Sowb.</i>
296	<i>valida Pfr.</i>	297	<i>eurypteron Rve.</i>
296	<i>Sieboldii Pfr.</i>	297	<i>Strombus Japonicus Rve.</i>
296	<i>Auricula hepatica Phil.</i>	297	<i>Cassis saburon Lam.</i>
296	<i>Lymnea Japonica Jay.</i>	297	<i>Japonica Rve.</i>
296	<i>flava Phil.</i>	297	<i>Columbella versicolor Sb.</i>
296	<i>Melania Bensoni Phil.</i>	297	<i>Purpura septentrionalis Rv.</i>
296	<i>Natica Antoni Phil.</i>	297	<i>Dolium variegatum Lam.</i>
296	<i>duplicata Say.</i>	297	<i>Buccinum Chinense Phil.</i>
296	<i>mamilla Lam.</i>	297	<i>achatinum Lam.</i>
296	<i>olla Desh.</i>	297	<i>Nassa Japonica A. Ad.</i>
296	<i>Actæon Dianæ A. Ad.</i>	297	<i>ponderosa A. Ad.</i>
296	<i>Ianthina communis Lam.</i>	297	<i>Desmoulea crassa A. Ad.</i>
296	<i>prolongata Blainv.</i>	297	<i>Bullia Perryi Jay.</i>
296	<i>Obeliscus pulchellus A. Ad.</i>	297	<i>Eburna Japonica Rve.</i>
296	<i>brunneus A. Ad.</i>	297	<i>Terebra serotina A. Ad.</i>
296	<i>Globulus giganteus Less.</i>	297	<i>Mitra impressa Anton.</i>
296	<i>Xenophora pallidulus Rve.</i>	297	<i>incisa A. Ad.</i>
296	<i>Monodonta catenulata.</i>	297	<i>Voluta megaspira Sowb.</i>
296	<i>exigua A. Ad.</i>	297	<i>cassidula Rve.</i>
296	<i>Trochus Japonicus Dunk.</i>	297	<i>Cypræa caputserpentis Lin.</i>
296	<i>triumphans Phil.</i>	297	<i>miliaris Gmel.</i>
296	<i>Clanculus Smithii Wood.</i>	297	<i>fimbriata Gmel.</i>
296	<i>Turbo Japonicus Rve.</i>	297	<i>pallida Gray.</i>
296	<i>Littorina Sieboldii Phil.</i>	297	<i>Ovulum concinnum Sowb.</i>
296	<i>Cecillii Phil.</i>	297	<i>birostre Lam.</i>
296	<i>Turritella aquila Rve.</i>	297	<i>striatulum Lam.</i>
297	<i>Eglisia Cumingii A. Ad.</i>	297	<i>volva Linn.</i>
297	<i>Cerithium Cecillii Phil.</i>	297	<i>Conus Sieboldii Rve.</i>

Lea.—Proceedings of the American Philosophical Society.
Philadelphia.

[For localities of the following species, vide quotations from the Transactions of this Society.—W. G. B.]

Isaac Lea.—Descriptions of—

Page.		Page.	
	Vol. i, No. 10. Jan.—Feb. 1840.		
173	<i>Bulimus Woodianus</i> Lea.	288	<i>Margaritana Vonden-</i> <i>buschiana</i> Lea.
173	<i>bicoloratus</i> Lea.		Vol. ii, No. 17. Mar.—Apr. 1841.
173	<i>subglobosus</i> Lea.	30	<i>Unio Rajahensis</i> Lea.
173	<i>gracilis</i> Lea.	31	<i>Anodonta Montezuma</i> Lea.
174	<i>carinatus</i> Lea.	31	<i>Bulimus Jayanus</i> Lea.
174	<i>virido-striatus</i> Lea.	31	<i>Achatina turbinata</i> Lea.
174	<i>virgineus</i> Lea.	31	<i>striata</i> Lea.
174	<i>Liberianus</i> Lea.	31	<i>Succinea gracilis</i> Lea.
174	<i>Cyclostoma Woodiana</i> Lea.	32	<i>Candeana</i> Lea.
174	<i>Carocolla bifasciata</i> Lea.	32	<i>fulgens</i> Lea.
174	<i>Helix cepoides</i> Lea.	33	<i>Lymnea rubella</i> Lea.
174	<i>Blainvilliana</i> Lea.		Vol. ii, No. 23. Aug.—Oct. 1842.
174	<i>Lamarckiana</i> Lea.		Notes on—
175	<i>luteo-fasciata</i> Lea.	213	<i>Petricola solida</i> Lea.
175	<i>ferruginea</i> Lea.		Payta, Peru.
175	<i>Cuvieriana</i> Lea.	213	<i>denticulata</i> Lea.
175	<i>Blandingiana</i> Lea.		Payta, Peru.
175	<i>Humphreysiana</i> Lea.	213	<i>Lithophagus dactylus</i> Lea.
175	<i>Balasteriana</i> Lea.		Payta, Peru.
	Vol. i, No. 13. Aug.—Oct. 1840.	213	<i>Ostrea</i> ——— Lea.
285	<i>Unio cucumoides</i> Lea.		Payta, Peru.
285	<i>delphinus</i> Lea.		Vol. v, No. 48. Feb.—Dec. 1852.
285	<i>orientalis</i> Lea.	252	<i>Basistoma</i> Lea (n. g.)
285	<i>Javanus</i> Lea.		

Binney, Couthouy, Gould, &c.—In the Boston Journal of Natural History occur the following :—

Vol. i, pt. 1. 1834.

Page. Pl. Fig.

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Binney.—Observations on a Shell in the Cabinet of the Boston Society of Natural History, supposed to be identical with the *Murex Aruanus* of Linnaeus, and the *Fusus Probosciferus* of Lamarck: by A. BINNEY.

67

v

Fusus Aruanus.

East Indies?

vi

Murex Aruanus Linn.

Fusus probosciferus Lam.

Vol. i, pt. 4. May, 1837.

440

Couthouy.—Description of a new species of the genus *Marginella* (Lam.), with some observations on the same: by JOSEPH P. COUTHOUY.

440

ix

1, 2

Marginella Storeria Couth.

S. shores of Gulf of Mexico.

Vol. ii, pt. 2. Feb. 1839.

129

Couthouy.—Monograph of the family Osteodermacea of Deshayes, with remarks on two species of Patelloidea, and descriptions of new species of Marine Shells; a species of *Anculotus*, and one of *Eolis*: by JOSEPH P. COUTHOUY.

[For the American species, vide p. 345.—W. G. B.]

135

Thracia pubescens.

English Channel.

Mya declivis Penn.

pubescens Pult.

Anatina myalis Lam.

declivis Brown.

140

convexa.

Great Britain.

Mya declivis Don.

convexa Wood.

Anatina convexa Turt.

Ligula distorta Mont.

143

corbuloides.

Mediterranean.

146

plicata.

147

phaseolina.

Amphidesma phaseolina Lam.

150

iv

3

similis Couth.

Brazil.

[Boston Journ. Nat. Hist.]

Page. Pl. Fig.

158		Notes on—	
158		<i>Anatina declivis</i> Turt.	
159		<i>villosiuscula</i> Brown.	
159		<i>Mya distorta</i> Mont.	
160		<i>Periploma trapezoides</i> .	Brazil.
		<i>Anatina trapezoides</i> Lam.	
		<i>Osteodesma trapezoides</i> Blainv.	

Vol. iv, pt. 4. 1844.

452		Gould. —Descriptions of Land Shells from the Province of Tavoy, in British Burmah: by AUGUSTUS A. GOULD, M. D.
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453	xxiv	1	<i>Helix procumbens</i> Gould.
453	xxiv	6	<i>infrendens</i> Gould.
454	xxiv	9	(<i>Carocolla</i>) <i>gabata</i> Gould.
454	xxiv	4	<i>anceps</i> Gould.
455	xxiv	5	<i>retrorsa</i> Gould.
456	xxiv	2	<i>Vitrina præstans</i> Gould.
456	xxiv	7	<i>Helix</i> (<i>Steptaxis</i>) <i>Petitii</i> Gould.
457	xxiv	3	<i>Bulimus atricallosus</i> Gould.
458	xxiv	8	<i>Clausilia insignis</i> Gould.
458	xxiv	11	<i>Cyclostoma pernobilis</i> Gould.
459	xxiv	10	<i>sectilabrum</i> Gould.

485		Gould. —Descriptions and notices of some of the Land Shells of Cuba: by A. A. GOULD, M. D.
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[Notes and localities of each species are given and descriptions of the new species.—W. G. B.]

486		<i>Helix auricoma</i> Fer.
486		<i>Bonplandii</i> Lam.
487		<i>multistriata</i> Desh.
		<i>H. circumtexta</i> Fer.
487		<i>Poeyi</i> Pet.
487		<i>gilvus</i> Fer.
		<i>H. penicillata</i> Gould.
487		<i>Cubensis</i> Pfr.
		<i>H. Lanieriana</i> D'Orb.
488		<i>fragilis</i> Pfr.
488		<i>Boothiana</i> Pfr.
488		<i>Ottonis</i> Pfr.
488		<i>saxicola</i> Pfr.
488		<i>septemvolva</i> Say.
488		<i>Ramonis</i> D'Orb.

[Boston Journ. Nat. Hist.]

Page.	Pl.	Fig.	
489			Achatina fasciata Müll. <i>A. vexillum</i> Brug.
489			<i>gracillima</i> Pfr.
489			<i>octona</i> Chemn.
489			Glandina oleacea Fer.
489			<i>folliculus</i> Lam. <i>Achatina solidula</i> Pfr.
490			Pupa unidentata Lam. <i>Bulinus Canimensis</i> Pfr.
490			<i>servilis</i> Gould. Described on p. 356, pl. xvi, fig. 14.
490			<i>contracta</i> Say.
490			<i>chrysalis</i> Fer.
490			<i>elegans</i> (<i>Cylindrella</i>) Pfr. <i>P. (Siphonostoma) lituus</i> Gould.
490	xxiv	12	(<i>Siphonostoma</i>) porrecta Gould.
491	xxiv	13	<i>lactaria</i> Gould.
492			<i>subula</i> Fer.?
492			(<i>Cyl.</i>) <i>crispula</i> Pfr.
492			Helicina submarginata Gr. <i>H. rubra</i> Pfr. <i>crassa</i> D'Orb.
492			<i>sagra</i> D'Orb.
492			<i>pulcherrima</i> Lea.
493			<i>adpersa</i> Pfr. <i>H. variegata</i> D'Orb.
493			<i>globulosa</i> D'Orb.
493			<i>nitida</i> Pfr. <i>H. glabra</i> Gould.
493			<i>rugosa</i> Pfr.
493			<i>hispida</i> Pfr.
493			<i>rupestris</i> Pfr.
494			Cyclostoma auriculatum D'Orb. <i>C. bicolor</i> Gould.
494			<i>sagra</i> D'Orb. <i>C. pictum</i> Pfr. <i>mahogani</i> Gould.
494			interruptum Sowb. <i>C. catenatum</i> Gould.
495			<i>rugulosum</i> Pfr. <i>C. clathratum</i> Gould.
495			Candeanum Sowb.
495			Auberianum D'Orb. <i>C. crenulatum</i> Pfr.

[Boston Journ. Nat. Hist.]

Page.	Pl.	Fig.	
495			Succinea —— ?
495			Limnea —— ?
495			Physa —— ?
496			Planorbis Havanensis Pfr.
496			Cubensis Pfr.
496			cultratus D'Orb.
496			Lanieriana D'Orb.
496	xxiv	14	dentatus Gould.
			<i>P. albicans</i> Pfr. ?

Notes on—

497			Littorina tuberculata Mke.
498			Turbo trochiformis Dillw.
498			Trochus nodulosus Gmel.
498			tuberculatus Wood.
498			Littorina dilatata D'Orb.

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A. A. Gould.—(On the third page of the cover of pt. 1, of vol. iv, occur descriptions of the following.)

Helix penicillata Gould.	Cuba.
Helicina glabra Gould.	Cuba.
Pupa (Siphonostoma) porrecta	Cuba.
lituus Gould.	[Gould. Cuba.
Cyclostoma bicolor Gould.	Cuba.
clathratum Gould.	Cuba.
mahogani Gould.	Cuba.
catenatum Gould.	Cuba.
Conus castrensis Gould.	

Vol. v, pt. 2. Oct. 1845.

290			Gould. —Descriptions of Shells from the Coast of Africa: by AUGUSTUS A. GOULD, M. D.
290	xxiv	7	Pholas branchiata Gould.
291	xxiv	9	Psammobia figlina Gould.
292	xxiv	8	Nucula bicuspidata Gould.
292	xxiv	10	Nassa turbinea Gould.
293	xxiv	11	elata Gould.

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344	xx	1-3	Leidy. —Anatomical description of the animal of Littorina angulifera Lam.: by JOSEPH LEIDY, M. D.
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i	138	Dr. A. A. Gould.	
i	138	<i>Helix penicillata</i> = H. gilvus Fer.	
i	138	<i>Helicina glabra</i> = Helicina nitida Pfr.	
i	138	<i>Pupa carinata</i> = P. procera Gould.	
i	138	<i>Siphonostoma lituus</i> = Cylindrella elegans Pfr.	
i	138	<i>Cyclostoma clathratum</i> = C. rugulosum Pfr.	
i	138	<i>Mahogani</i> = C. Sagra D'Orb. (<i>pictum</i> Pfr.)	
i	138	<i>bicolor</i> = C. auriculatum D'Orb.	
i	138	Siphonostoma porrectum Gould.	Cuba.
i	138	Cyclostoma catenatum Gould.	Cuba.
i	138	Conus castrensis Gould.	
i	138	Pupa servilis Gould.	Cuba, Santa Cruz.
i	139	<i>lyrata</i> Gould.	Sandwich Islands.
i	139	Helix procumbens Gould.	Tavoy.
i	139	<i>infrendens</i> Gould.	Tavoy.
i	139	(<i>Carocolla</i>) gabata Gould.	Tavoy.
i	139	<i>retrorsa</i> Gould.	Tavoy.
i	139	<i>anceps</i> Gould.	Tavoy.
i	140	Vitrina præstans Gould.	Tavoy.
i	140	Bulimus atricallosus Gould.	Tavoy.
i	140	Clausilia insignis Gould.	Tavoy.
i	140	Cyclostoma pernobilis Gould.	Tavoy.
i	140	<i>sectilabrum</i> Gould.	Tavoy.
i	140	Unio Tavoyensis Gould.	Tavoy.
i	141	<i>crispata</i> Gould.	Tavoy.
i	141	<i>foliacea</i> Gould.	Tavoy.
i	141	<i>exolescens</i> Gould.	Tavoy.
i	144	Paludina doliaris Gould.	Burmah.
i	144	<i>petrosa</i> Gould.	Burmah.
i	144	Melania batana Gould.	Burmah.
i	144	Modiola varicosa Gould.	Burmah.

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i	148	Melampus and Pedipes.	
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i	157	Helix (Carocolla) pellucida Gould.	Africa.
i	158	Bulimus rubicundulus Gould.	Africa.
i	158	<i>interstinctus</i> Gould.	Africa.
i	158	Achatina torrida Gould.	Africa.

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i	158	<i>Pupa pumilio</i> Gould.	Africa.
i	158	<i>capitata</i> Gould.	Africa.
i	159	<i>Melania mutans</i> Gould.	[don]. Africa.
i	160	<i>Anodon Salweniana</i> Gld. (Pseudo-	R. Salwen, Burmah.
i	160	<i>inoscularis</i> Gould (Pseudodon).	R. Salwen, Burmah.
i	160	<i>Pseudodon</i> Gould (n. s. g.)	
i	160	<i>edentula</i> Gould.	
i	160	<i>Stewartii</i> Gould.	
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i	174	<i>Helix setigera</i> Gould.	Sandwich Islands.
i	174	<i>stellula</i> Gould.	Sandwich Islands.

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- ii 1 **Adams.**—Specierum novarum Conchyliorum in Jamaica reperi-
torum Synopsis: by C. B. ADAMS.

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ii 1	<i>Marginella rubella</i> Ad.	ii 5	<i>Cerithium iota</i> Ad.
ii 1	<i>Erato</i> ? <i>cypræoides</i> Ad.	ii 5	<i>variabile</i> Ad.
ii 2	<i>Mitra albo-cincta</i> Ad.	ii 5	<i>mutabile</i> Ad.
ii 2	<i>exigua</i> Ad. [Ad.	ii 5	<i>algcicola</i> Ad.
ii 2	<i>Columbellapurpurascens</i>	ii 5	<i>bicolor</i> Ad.
ii 2	<i>subcostulata</i> Ad.	ii 6	<i>Rissoa albida</i> Ad.
ii 2	<i>Buccinum candidissimum</i>	ii 6	<i>affinis</i> Ad.
ii 2	<i>concinnum</i> Ad. [Ad.	ii 6	<i>scalarella</i> Ad.
ii 2	<i>obesum</i> Ad.	ii 6	<i>tervaricosa</i> Ad.
ii 2	<i>Purpura nodulosa</i> Ad.	ii 6	<i>crassicosta</i> Ad.
ii 3	<i>Fusus muricoides</i> Ad.	ii 6	<i>Eulima Jamaicensis</i> Ad.
ii 3	<i>Pleurotoma albo-macu-</i>	ii 6	<i>Chemnitzia Babylonica</i> Ad.
	<i>lata</i> Ad.	ii 6	<i>Monodonta maculo-stri-</i>
ii 3	<i>albo-cincta</i> Ad.	ii 7	<i>angulata</i> Ad. [ata Ad.
ii 3	<i>nigrescens</i> Ad.	ii 7	<i>livido-maculata</i> Ad.
ii 3	<i>trilineata</i> Ad.	ii 7	<i>Turbo</i> ? <i>pulchellus</i> Ad.
ii 3	<i>albida</i> Ad.	ii 7	<i>Scalaria modesta</i> Ad.
ii 3	<i>multilineata</i> Ad.	ii 7	<i>Nerita præcognita</i> Ad.
ii 4	<i>albo-vittata</i> Ad.	ii 7	<i>Neritina pygmæa</i> Ad.
ii 4	<i>candidissima</i> Ad.	ii 8	<i>Fissurella elongata</i> Ad.
ii 4	<i>fusca</i> Ad.	ii 8	<i>Patella tenera</i> Ad.
ii 4	<i>dubia</i> Ad.	ii 8	<i>albicosta</i> Ad.
ii 4	<i>minor</i> Ad.	ii 8	<i>Chiton squalidus</i> Ad.
ii 4	<i>fusco-lineata</i> Ad.	ii 8	<i>costatus</i> Ad.
ii 4	<i>elator</i> Ad.	ii 8	<i>squamulosus</i> Ad.
ii 4	<i>Cerithium ambiguum</i> Ad.	ii 8	<i>multicostatus</i> Ad.
	<i>C. lafondii</i> Ad.	ii 9	<i>purpurascens</i> Ad.
ii 5	<i>gibberulum</i> Ad.	ii 9	<i>papillosus</i> Ad.

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ii	9	<i>Chiton erythronotus</i> <i>Ad.</i>
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ii	9	<i>Arca tenera</i> <i>Ad.</i>
ii	9	<i>Cardita ovata</i> <i>Ad.</i>
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ii	9	<i>Thetis cerina</i> <i>Ad.</i>
ii	9	<i>parva</i> <i>Ad.</i>
ii	9	<i>Lucina granulosa</i> <i>Ad.</i>
ii	10	<i>imbricatula</i> <i>Ad.</i>
ii	10	<i>pulchella</i> <i>Ad.</i> [<i>Ad.</i>
ii	10	<i>Amphidesma Jayanum</i>
ii	10	<i>Tellina decussatula</i> <i>Ad.</i>
ii	10	<i>nitens</i> <i>Ad.</i>
ii	10	<i>Psammobia purpureo-</i> <i>maculata</i> <i>Ad.</i>
ii	10	<i>affinis</i> <i>Ad.</i>
ii	10	<i>biradiata</i> <i>Ad.</i>
ii	10	<i>cerina</i> <i>Ad.</i>
ii	11	<i>Cyclostoma Duffianum</i>
ii	11	<i>Hillianum</i> <i>Ad.</i> [<i>Ad.</i>
ii	11	<i>lima</i> <i>Ad.</i>
ii	11	<i>Bronnii</i> <i>Ad.</i>
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ii	11	<i>Helicina Leana</i> <i>Ad.</i>
ii	12	<i>lineata</i> <i>Ad.</i>
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ii	12	<i>Truncatella succinea</i> <i>Ad.</i>
ii	12	<i>Cumingii</i> <i>Ad.</i>
ii	12	<i>scalariformis</i> <i>Ad.</i>
ii	12	<i>Pedipes globulosus</i> <i>Ad.</i>
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ii	12	<i>Succinea contorta</i> <i>Ad.</i>
ii	12	<i>Bulimus octonoides</i> <i>Ad.</i>
ii	12	<i>pallidus</i> <i>Ad.</i>
ii	13	<i>Bulimus procerus</i> <i>Ad.</i>
ii	13	<i>læviusculus</i> <i>Ad.</i>
ii	13	<i>striatella</i> <i>Ad.</i>
ii	13	<i>Achatina iota</i> <i>Ad.</i>
ii	13	<i>pellucens</i> <i>Ad.</i>
ii	13	<i>costulata</i> <i>Ad.</i>
ii	13	<i>Phillipsii</i> <i>Ad.</i>
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ii	14	<i>Cylindrella?</i> <i>pygmæa</i> <i>Ad.</i>
ii	14	<i>Cumingii</i> <i>Ad.</i>
ii	14	<i>cylindrus</i> <i>Ad.</i>
ii	14	<i>seminuda</i> <i>Ad.</i>
ii	14	<i>Pupa fusiformis</i> <i>Ad.</i>
ii	15	<i>nobilior</i> <i>Ad.</i>
ii	15	<i>obesa</i> <i>Ad.</i>
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ii	15	<i>tenuidens</i> <i>Ad.</i>
ii	15	<i>Helix peracutissima</i> <i>Ad.</i>
ii	15	<i>memoraloides</i> <i>Ad.</i>
ii	15	<i>subconica</i> <i>Ad.</i>
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ii	16	<i>peraffinis</i> <i>Ad.</i>
ii	16	<i>arboreoides</i> <i>Ad.</i>
ii	16	<i>tenerrima</i> <i>Ad.</i>
ii	16	<i>dioscoricola</i> <i>Ad.</i>
ii	17	<i>Jayana</i> <i>Ad.</i>
ii	17	<i>Paludina rivularis</i> <i>Ad.</i>
ii	17	<i>Melania spinifera</i> <i>Ad.</i>
ii	17	<i>Planorbis dentiferus</i> <i>Ad.</i>
ii	18	Mighels. —Descriptions of Shells from the Sandwich Islands and other localities: by Dr. J. W. MIGHELS.
ii	18	<i>Helix intercarinata</i> <i>Migh.</i> Oahu.
ii	19	<i>subrutila</i> <i>Migh.</i> Oahu.
ii	19	<i>tiara</i> <i>Migh.</i> Kanai.
ii	19	<i>jugosa</i> <i>Migh.</i> Waioli.
ii	19	<i>Helicina laciniosa</i> <i>Migh.</i> Oahu.
ii	19	<i>rotelloidea</i> <i>Migh.</i> Oahu.
ii	19	<i>Pupa admodesta</i> <i>Migh.</i> Oahu.

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ii	19	<i>Bulimus armatus Migh.</i>	Hawaii.
ii	19	<i>pumicatus Migh.</i>	Oahu.
ii	20	<i>scutilus Migh.</i>	Oahu.
ii	20	<i>clausinus Migh.</i>	Hawaii.
ii	20	<i>Partula virgulata Migh.</i>	Waianai.
ii	20	<i>Achatina accineta Migh.</i>	Oahu.
ii	20	<i>turricula Migh.</i>	Oahu.
ii	20	<i>Achatinella nubilosa Migh.</i>	Oahu.
ii	20	<i>vestita Migh.</i>	Waianai and Hawaii.
ii	20	<i>viridans Migh.</i>	Oahu.
ii	21	<i>mustelina Migh.</i>	Waianai.
ii	21	<i>cingula Migh.</i>	Oahu.
ii	21	<i>venusta Migh.</i>	Oahu.
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ii	21	<i>caduca Migh.</i>	Oahu.
ii	21	<i>Physa umbilicata Migh.</i>	Oahu.
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ii	22	<i>Sigaretus filicatus Migh.</i>	Zanzibar, E. Africa.
ii	22	<i>Solarium implexum Migh.</i>	Oahu.
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ii	22	<i>Cerithium gracilentum Migh.</i>	Oahu.
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ii	24	<i>obnubila Migh.</i>	Oahu.
ii	24	<i>Triton lacunatum Migh.</i>	Oahu.
ii	24	<i>Cypræa semiplota Migh.</i>	Oahu.
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ii	24	<i>sphærule Migh.</i>	Oahu.
ii	25	<i>unifasciata Migh.</i>	Oahu.
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ii	26	<i>Achatina adusta</i> Gould.	Sandwich Islands.
ii	26	<i>Stomatella concinna</i> Gould.	Sandwich Islands.
ii	27	<i>Trochus verruca</i> Gould.	Sandwich Islands.
ii	27	(<i>Monodonta</i>) <i>gemmaus</i> Gould.	Sandwich Islands.
ii	27	<i>Columbella palumbina</i> Gould.	Sandwich Islands.
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ii	27	<i>Achatinella radiata</i> Gould.	Sandwich Islands.
ii	27	<i>rubens</i> Gould.	Sandwich Islands.
ii	28	<i>nucleola</i> Gould.	Sandwich Islands.
ii	28	<i>microstoma</i> Gould.	Sandwich Islands.
ii	28	<i>fuliginosa</i> Gould.	Sandwich Islands.
ii	28	<i>striatula</i> Gould.	Sandwich Islands.

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ii	37	<i>Pholas branchiata</i> Gould.	Liberia.
ii	37	<i>Psammobia figlina</i> Gould.	Liberia.
ii	37	<i>Tellina rubicunda</i> Gould.	Liberia.
ii	37	<i>Nucula bicuspidata</i> Gould.	Liberia.
ii	37	<i>Nassa turbinea</i> Gould.	Liberia.
ii	38	<i>elata</i> Gould.	Liberia.
ii	38	<i>Helix hepatizon</i> Gould.	M. of Gaboon river.

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ii	98	<i>Helix saturnia</i> Gould.	Tavoy, Burmah.
ii	99	<i>refuga</i> Gould.	Tavoy, Burmah.
ii	99	<i>honesta</i> Gould.	Tavoy, Burmah.
ii	99	<i>Bulimus moniliferus</i> Gould.	Tavoy, Burmah.
ii	99	<i>Pupa melita</i> Gould.	Tavoy, Burmah.
ii	100	<i>Succinea semiserica</i> Gould.	Tavoy, Burmah.
ii	100	<i>Melania Herculea</i> Gould.	Tavoy, Burmah.
ii	100	<i>Amnicola cincta</i> Gould.	Tavoy, Burmah.
ii	100	<i>Nucula turgida</i> Gould.	Tavoy, Burmah.
ii	101	<i>Bulimus turnix</i> Gould.	Organ Mts., Brazil.

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ii	102	<i>Planorbis pallidus</i> Adams.	Jamaica.
ii	102	<i>Cyclostoma maritimum</i> Adams.	Jamaica.
ii	102	<i>Helicina affinis</i> Adams.	Jamaica.
ii	102	<i>Pupa rosea</i> Adams.	Jamaica.
ii	103	<i>Lima pellucida</i> Adams.	Jamaica.

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- ii 133 Memoir on Mollusca of Jamaica.
- ii 134 (List of New England Shells found in Jamaica)—
- ii 134 *Buccinum vibex* Say.
- ii 134 *Cerithium terebrale*.
- ii 134 *Limnea umbilicata*.
- ii 134 *Helix chersina*.
- ii 134 *Pupa contracta*.
- ii 134 *rupicola*.
- ii 134 *Modiola barbata*.
- ii 134 *Lucina divaricata*.

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[The descriptions of the Mollusks of Wilkes' Exploring Expedition were also published in pamphlet form, under the title of "Expedition Shells."—W. G. B.]

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| ii | 142 | <i>jugosus</i> Gould. | New South Wales. |
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| ii | 143 | <i>platessa</i> Gould. | New South Wales. |
| ii | 143 | <i>jaspideus</i> Gould. | Callao. |
| ii | 143 | <i>puniceus</i> Gould. | Orange Harbor. |
| ii | 143 | <i>confossus</i> Gould. | Feejee Islands. |
| ii | 144 | <i>pruinosis</i> Gould. | Rio Janeiro. |
| ii | 144 | <i>viridulus</i> Gould. | Orange Harbor. |
| ii | 144 | <i>petaloides</i> Gould. | Sandwich Islands. |
| ii | 145 | <i>incanus</i> Gould. | New South Wales. |
| ii | 148 | <i>Patella talcosa</i> Gould. | Hawaii. |
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| ii | 149 | <i>illuminata</i> Gould. | Auckland Island. |
| ii | 149 | <i>citrullus</i> Gould. | Funchal, Madeira. |
| ii | 150 | <i>Paumotensis</i> Gould. | Feejees, &c. |
| ii | 150 | <i>luctuosa</i> Gould. | New Zealand. |
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| ii | 151 | <i>cinnamomea</i> Gould. | New South Wales. |
| ii | 151 | <i>Lottia cymbiola</i> Gould. | Valparaiso. |
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| ii | 153 | <i>Siphonaria cornuta</i> Gould. | Mangsi Island. |
| ii | 153 | <i>inculta</i> Gould. | New Zealand. |
| ii | 153 | <i>lateralis</i> Gould. | Burnt Isl., Or. Harbor. |
| ii | 154 | <i>lepidia</i> Gould. | Rio Janeiro. |
| ii | 154 | <i>normalis</i> Gould. | Sandwich Islands. |

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ii	156	occidens Gould.	Callao.
ii	156	cruciata Gould.	Sooloo Sea.
ii	161	Calyptræa radiosa Gould.	Mangsi Island.
ii	161	chlorina Gould.	Cape de Verds.
ii	161	Hipponix imbricata Gould.	Sandwich Islands.
ii	162	Pileopsis crystallina Gould.	Feejee Islands.
ii	165	Helix gulosa Gould.	New South Wales.
ii	166	zig-zag Gould.	New Zealand.
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ii	171	Helix pusillus Gould.	Mountains of Maui.
ii	171	saxatilis Gould.	Terra del Fuego.
ii	171	exæquata Gould.	Kauī.
ii	171	cicercula Gould.	Mountains of Hawaii.
ii	171	cryptoportica Gould.	
ii	172	cultrata Gould.	Taheiti and Eimeo.
ii	172	pertenuis Gould.	Anrora Island.
ii	172	gradata Gould.	Tongataboo.
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ii	177	Eurydice Gould.	Tongataboo.
ii	177	subtilissima Gould.	Maui.
ii	178	(<i>Nanina</i>) scorpio Gould.	Feejee Islands.
ii	178	ruida Gould.	Feejee Islands.
ii	178	irradiata Gould.	New Holland.
ii	178	rubricata Gould.	Lebouka, Feejees.
ii	179	lurida Gould.	Feejees.
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ii	181	tenella Gould.	Kauai.
ii	181	robusta Gould.	New South Wales.
ii	182	rotundata Gould.	Oahu.
ii	182	cepulla Gould.	Hawaii.
ii	182	putamen Gould.	Upolu.
ii	183	vesicalis Gould.	Mauna Kea, Hawaii.
ii	183	lumbalis Gould.	Kauai.
ii	183	humerosa Gould.	Tahiti.
ii	183	crocata Gould.	Upolu.
ii	184	canella Gould.	Maui.
ii	185	Magellanica Gould.	Terra del Fuego.
ii	185	Manuana Gould.	Manua.
ii	186	modesta Gould.	Upolu.
ii	186	venusta Gould.	Hawaii.
ii	186	pudotina Gould.	Tahiti and Eimeo.
ii	186	infundibuliformis Gould.	Tahiti and Eimeo.
ii	187	procera Gould.	Eimeo.
ii	190	Bulimus elobatus Gould.	Feejees.
ii	190	morosus Gould.	Feejees.
ii	191	prolatus Gould.	Santiago, Chili.
ii	191	ciliatus Gould.	Organ Mount's, Brazil.
ii	191	pruninus Gould.	
ii	191	hybridus Gould.	Rio Janeiro. [Isl'ds.
ii	191	junceus Gould.	Society and Sandwich
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ii	196	Partula conica Gould.	Samoa Isl., Raraka Isl.
ii	196	zebrina Gould.	Samoa Isl., Tutuila.
ii	197	pusilla Gould.	Matea Island.
ii	197	Pupa (Vertigo) tantilla Gould.	Tahiti.
ii	197	peponum Gould.	Sandwich Islands.
ii	197	(Megaspira) elata Gould.	Brazil.
ii	198	Balea peregrina Gould.	New Zealand.
ii	200	Achatinella marmorata Gould.	Maui.
ii	200	ellipsoidea Gould.	Maui.
ii	200	acuminata Gould.	Kauai.
ii	201	cerealis Gould.	Oahu.
ii	201	guttula Gould.	Maui.
ii	201	Helicina fulgora Gould.	Upolu, Manua.
ii	201	musiva Gould.	Upolu, Manua.
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ii	202	<i>uberta</i> Gould.	Maui, Oahu.
ii	202	<i>beryllina</i> Gould.	Feejees.
ii	202	<i>pallida</i> Gould.	Feejees.
ii	204	<i>Cyclostoma tiara</i> Gould.	Upolu.
ii	204	<i>strigatum</i> Gould.	Upolu.
ii	205	<i>plicatum</i> Gould.	Upolu.
ii	205	<i>obligatum</i> Gould.	Matea.
ii	205	<i>diatretum</i> Gould.	Feejees.
ii	205	<i>roseum</i> Gould.	Feejees.
ii	206	<i>terebrale</i> Gould.	Taheiti, Eimeo.
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ii	206	<i>citulum</i> Gould.	Taheiti, Eimeo, Manua.
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ii	219	<i>baccata</i> Gould.	Thoungyin river.
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ii	220	<i>Nerita articulata</i> Gould.	Tavoy.
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ii	223	<i>corolla</i> Gould.	Bank's Penin., N. Zld.
ii	223	<i>lutosa</i> Gould.	Upolu.
ii	223	<i>corporosa</i> Gould.	Taheiti.
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ii 224 *Melania scitula* Gould. Upolu.

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- ii 225 *furfurosa* Gould. Manilla.
 ii 225 *Melanopsis Zelandica* Gould. New Zealand.
 ii 237 *Neritina percata* Gould.
 ii 237 *cholericæ* Gould. Feejees.
 ii 237 *chrysocolla* Gould. Upolu.
 ii 238 *helvola* Gould. Feejees.
 ii 238 *siderea* Gould. Feejees.
 ii 238 *amcena* Gould.
 ii 238 *musiva* Gould.
 ii 239 *soluta* Gould.

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- ii 251 *Bulla parallela* Gould.
 ii 251 *Tornatella bullata* Gould. Patagonia.
 ii 251 *Haliotis crispata* Gould. New Holland.
 ii 252 *Scalaria gracilentæ* Gould. Mangsi Island.
 ii 252 *texturata* Gould.

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- iii 73 *Natica algida* Gould. Rio Negro.
 iii 73 *dilecta* Gould.
 iii 73 *Stomatella decolorata* Gould. Mangsi Island.
 iii 74 *tumida* Gould. China Seas.
 iii 74 *Ampullaria columellaris* Gould. Mayna, Peru.
 iii 74 *Amnicola badia* Gould. Bank's Penin., N. Zld.
 iii 75 *egena* Gould. Bank's Penin., N. Zld.
 iii 75 *Litiopa decussata* Gould. Lat. 37° 40' N., long. 54° 30' W.

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- iii 83 *Littorina caliginosa* Gould. Terra del Fuego.
 iii 84 *acuminata* Gould. Mangsi Island.
 iii 84 *Stylifer acicula* Gould. Feejee Islands.
 iii 84 *Solarium egenum* Gould.
 iii 89 *Turbo confragosus* Gould. Dean's Island.
 iii 90 *sirius* Gould. New Holland.
 iii 90 *laciniatus* Gould. Manilla.
 iii 90 *Trochus pruninus* Gould. Auckland Island.
 iii 90 *texturatus* Gould. New Zealand.
 iii 91 *pupillus* Gould. New Zealand.
 iii 91 *jucundus* Gould. New Zealand.
 iii 91 *gradatus* Gould. Pacific Island.
 iii 92 *acinosus* Gould. New Zealand.
 iii 92 *elisus* Gould. Singapore.

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iii	106	<i>spureus</i> Gould.	Madeira.
iii	107	<i>amœnus</i> Gould.	Feejee Islands.
iii	107	(<i>Monodonta</i>) <i>colubrinus</i> Gld.	Madeira.
iii	107	<i>instrictus</i> Gould.	Pacific Island.
iii	107	<i>atropurpureus</i> Gould.	Tutuilla.
iii	108	<i>rotellinus</i> Gould.	Mangsi Island.

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iii	119	Cerithium aduncum Gould.	Mindanao.
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iii	119	<i>sordidulum</i> Gould.	
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iii	141	<i>incisus</i> Gould.	
iii	142	<i>sublutus</i> Gould.	
iii	142	<i>Brazilianum</i> Gould.	Rio Janeiro.
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iii	143	Murex (Trophon) fruticosus Gld.	New Holland.

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iii	152	<i>funereum</i> Gould.	New Zealand.
iii	152	(<i>Pollia</i>) <i>farinosum</i> Gould.	Kauai.
iii	153	Nassa musiva Gould.	Cape de Verd Islands.
iii	153	<i>lurida</i> Gould.	Tutuilla.
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iii	155	<i>rubricata</i> Gould.	Pacific Shore.

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iii	218	Osteodesma Braziliensis Gould.	Rio Janeiro.
iii	218	Amphidesma croceum Gould.	Callao.
iii	218	Erycina (Poronia) ovata Gould.	Sandwich Islands.
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iii	252	(Kellia) quadrata Gould.	Feejee Islands.
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vii	166	<i>hexagonum</i> <i>Gould.</i>	Hong Kong.
vii	166	<i>buccinulum</i> <i>Gould.</i>	Kagosima.
vii	166	<i>intercalatum</i> <i>Gould.</i>	China.
vii	166	<i>strigatum</i> <i>Gould.</i>	Cape of Good Hope.
vii	166	<i>porcatum</i> <i>Gould.</i>	Hong Kong.
vii	166	<i>clavatum</i> <i>Gould.</i>	Hong Kong.

Rafinesque.—On eight Asiatic bivalve fluviatile Shells. In the Appendix to the Continuation of a Monograph, &c. (vide p. 4): by C. S. RAFINESQUE.

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6	Diplasma <i>Raf.</i> (n. g.)	
6	<i>marginata</i> <i>Raf.</i>	Tennessee? Hindostan?
6	<i>similis</i> <i>Raf.</i>	Ganges.
6	<i>vitrea</i> <i>Raf.</i>	River Jellingby.
6	<i>striata</i> <i>Raf.</i>	River Jellingby.
7	Hemisolasma <i>Raf.</i> (n. s. g.)	
7	Unio (<i>Lampsilis</i>) <i>fulgens</i> <i>Raf.</i>	Ganges.
7	<i>argyratus</i> <i>Raf.</i>	Ganges.
7	<i>corrugata</i> <i>Auct.</i>	Baramputra.
7	(<i>Obliquaria</i> ? <i>Aximédia</i> ?) <i>Raf.</i>	
7	Longocilla <i>Raf.</i> (n. g.)	
7	<i>solenoides</i> <i>Raf.</i> (<i>Anodonta</i>).	River Jellingby.
7	Dianisotis <i>Raf.</i> (n. g.)	
7	<i>chinensis</i> <i>Raf.</i>	
	<i>Symphonata bialata</i> <i>Lea.</i>	

Harris.—Account of Pawpaw or Cowry Shells found in Dorchester, in a letter to the Hon. John Davis, Esq.: by Rev. THADDEUS MASON HARRIS, F. A. A. (In Mem. American Academy of Arts and Sciences, vol. iii, pt. 1. Cambridge, 1809, pp. 159, 160.)

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159	Cypræa <i>moneta.</i>	Dorchester?
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Lea.—Observations on the genus *Unio*, &c. &c. (vide p. 433).

[The following are the foreign species.—W. G. B.]

Tr. A. P. S. Vol. iii. 1830.			Obs.		
Pa.	Pl.	Fig.	V.	Pa.	
421			i	35	Remarks on Lamarck's species of <i>Naiades</i> .
445	xiv	24	i	59	<i>Symphynota bi-alata</i> Lea. Asia?
456			i	70	<i>cygnea</i> Lea. Europe.
					<i>Mytilus cygneus</i> Linn.
					<i>Anodonta cygneus</i> Lam.
Vol. iv. 1834.					
91	xii	22	i	101	<i>Unio multistriatus</i> Lea. Brazil.
95	xiii	25	i	105	<i>cæruleus</i> Lea. Hoogly r., Hind.
97	xiii	27	i	107	<i>incurvus</i> Lea. Gibraltar.
98	xi	19	i	108	<i>Symphynota bilineata</i> Lea. Hoogly r., Hind.
108	xxi	38	i	118	<i>Unio olivarius</i> Lea. Burrell r., India.
Vol. v. 1837.					
28	i	1	i	140	<i>Nicklinianus</i> Lea. China.
33	iii	6	i	145	<i>Murchisonianus</i> Lea. China.
40	viii	19	i	152	<i>lacteolus</i> Lea. R. de la Plata.
42	v	13	i	154	<i>Symphynota Woodiana</i> Lea. China.
43	v	14	i	155	<i>magnifica</i> Lea. China.
49	xix	56	i	161	<i>Helicina lens</i> Lea. Feejee Islands.
49	xix	57	i	161	<i>pulcherrima</i> Lea. Java (Cuba, ij,
50	xix	58	i	162	<i>virginea</i> Lea. Java. [69].
					<i>Hel. striata</i> Lam?
51	xix	59	i	163	<i>Helix muscarum</i> Lea. Society Islands.
51	xix	60	i	163	<i>purpuragula</i> Lea. Java Islands.
52	xix	61	i	164	<i>ovum-reguli</i> Lea. Java Islands.
53	xix	62	i	165	<i>monodonta</i> Lea. Java Islands.
53	xix	63	i	165	<i>cyclostomopsis</i> Lea.
54	xix	64	i	166	<i>mamilla</i> Lea.
54	xix	65	i	166	<i>diaphana</i> Lea.
55	xix	66	i	167	<i>Himalana</i> Lea. Himalaya Mts.
56	xix	67	i	168	<i>vesica</i> Lea.
56	xix	68	i	168	<i>cincta</i> Lea. Java?
57	xix	69	i	169	<i>Woodiana</i> Lea. Canton.
58	xix	70	i	170	<i>globula</i> Lea. Canton.
60	viii	20	i	172	<i>Unio parallelipedon</i> Lea. River Parana.
62	ix	22	i	174	<i>emarginatus</i> Lea.
62	ix	24	i	176	<i>divaricatus</i> Lea. Egypt.
62	ix	25	i	177	<i>Corrianus</i> Lea. India.
66	ix	26	i	178	<i>Grayanus</i> Lea. China.

[Lea, Observations, &c.]

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77	xii	35	i	189
78	xii	36	i	190
80	xiii	37	i	192
81	xix	72	i	193
81	xix	73	i	193
82	xix	74	i	194
82	xix	75	i	194
83	xix	76	i	195
84	xix	77	i	196
99	xiv	42	i	311
105	xvi	49	i	317
107	xvii	51	i	219
108	xvii	52	i	320
109	xviii	53	i	321
110	xviii	55	i	322
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111	xviii	54	i	323
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3	ii	3	ii	3
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19	vi	16	ii	19
20	xxiii	95	ii	20
21			ii	21
21	xxiii	101	ii	21
65	xxiii	100	ii	65
65	xxiii	105	ii	65
66	xxiii	110	ii	66
66	xxiii	111	ii	66
68	xxiii	87	ii	68
74	xviii	57	ii	74
75	xviii	58	ii	75
81	xxii	68	ii	81
82	xxii	70	ii	82
83	xxiii	92	ii	83
84	xxiii	96	ii	84
84	xxiii	97	ii	84
85	xxiii	99	ii	85
Unio Burroughianus Lea.				River Parana.
Symphynota discoidea Lea.				
Anodonta latomarginata				River Parana.
Blainvilliana Lea. [Lea.				Chili?
tenebricosa Lea.				River Parana.
Mortoniana Lea.				River Parana.
Melania aculens Lea.				Java?
Lymnæa imperialis Lea.				South America?
Melanopsis princeps Lea.				C. of Good Hope.
maculata Lea.				Pern.
Auricula fuscagula Lea.				Brazil (Cuba, ii,
Cyclostoma striata Lea.				Pern. [69].
Unio Paranensis Lea.				River Parana.
Anodonta Burroughiana				Island Luconia.
Cyrena rotundata Lea. [Lea.				
Jayensis Lea.				Batavia?
turgida Lea.				India.
Woodiana Lea.				Canton.
Aprodite Lea. (n. g.)				
columba Lea.				
Paludina Burroughiana Lea.				Island Luconia.
Unio Bengalensis Lea.				Bengal.
Ampullaria Pealiana Lea.				Turbaco, Colum-
Unio lamellatus Lea.				Bengal. [bia.
Melania plicata Lea.				Bengal?
Megaspira Lea. (n. g.)				
Ruschenbergiana Lea.				Brazil?
Bulimus lacteus Lea.				Magdalena riv.
Pealianus Lea.				Angostura, Col.
Columbianus Lea.				Magdalena riv.
corneus Lea.				Buena Vista, Co-
				lumbia.
Cyclostoma maculata Lea.				Manilla.
Unio discus Lea.				India.
contradens Lea.				
Anodonta exilis Lea.				
Iridina cœlestis Lea.				Africa.
Bulimus glandiformis Lea.				New Grenada.
parvus Lea.				Carthagera.
virgo Lea.				Carthagera.
Gibbonius Lea.				New Grenada.

[Lea, Observations, &c.]

Tr. A. P. S. Vol. vi. 1839.			Obs.			
Pa.	Pl.	Fig.	V.	Pa.		
85	xxiii	102	ii	85	Bulimus gracilis Lea.	Carthagenæ.
86	xxiii	108	ii	86	decoratus Lea.	Carthagenæ.
86	xxiii	112	ii	86	maculatus Lea.	Carthagenæ.
89	xxiii	88	ii	89	Helix magnifica Lea.	New Grenada.
90	xxiii	78	ii	90	Paludina sinistrorsa Lea.	India.
94	xxiii	76	ii	94	Cyclostoma Popayana Lea.	New Grenada.
98	xxiii	73	ii	98	Carocolla Hydiana Lea.	Porto Cabello.
108	xxiv	116	ii	108	Unio Brownianus Lea.	River Amazon.
121			ii	121	Synopsis of the family of Naiades.	
141			ii	141	Platiris Lea (n. g.)	
141			ii	141	Spatha Lea (n. s. g.)	

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Description of nineteen new species of Colimacea.

455	xi	1		Bulimus subglobosus Lea.	Philippine Islds.
455	xi	2		virido-striatus Lea.	Philippine Islds.
456	xi	3		virginieus Lea.	Philippine Islds.
457	xi	4		Liberianus Lea.	Liberia.
457	xi	5		Woodianus Lea.	Philippine Islds.
458	xi	6		gracilis Lea.	Philippine Islds.
458	xi	7		carinatus Lea.	Philippine Islds.
459	xi	8		bicoloratus Lea.	Philippine Islds.
459	xii	9		Helix Blandingianus Lea.	Liberia.
460	xii	10		Balestieriana Lea.	Philippine Islds.
461	xii	11		Lamarckiana Lea.	Philippine Islds.
461	xii	12		Cuvieriana Lea.	Philippine Islds.
462	xii	13		luteo-fasciata Lea.	Philippine Islds.
462	xii	14		cepoides Lea.	Philippine Islds.
463	xii	15		Blainvilliana Lea.	Philippine Islds.
463	xii	16		Humphreysiana Lea.	Pondicherry, Singapore.
464	xii	17		ferruginea Lea.	Philippine Islds.
465	xii	18		Carocolla bifasciata Lea.	Philippine Islds.
465	xii	19		Cyclostoma Woodiana Lea.	Philippine Islds.

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192	vii	2	iii	30	Unio cucumoides Lea.	Hunter's r., N. S.
218	xvii	35	iii	55	delphinus Lea.	N. Holland ? [W.
220	xviii	37	iii	56	Javanus Lea.	Java.
221	xviii	38	iii	58	orientalis Lea. [ana Lea.]	Java ?
222	xviii	39	iii	59	Margaritana Vondenbuschi	Java ?

[Lea, Observations, &c.]

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239	xxiii	53	iii	77	Unio Rajahensis <i>Lea.</i>	Calcutta.
240	xxiii	55	iii	78	Anodonta Montezuma <i>Lea.</i>	Central America.
Vol. ix. 1844.						
2			iv	2	Bulimus Jayanus <i>Lea.</i>	Java?
2			iv	2	Achatina turbinata <i>Lea.</i>	Liberia.
3			iv	3	striata <i>Lea.</i>	Liberia.
3			iv	3	Succinea gracilis <i>Lea.</i>	Java?
5			iv	5	Candeana <i>Lea.</i>	Martinique.
5			iv	5	fulgens <i>Lea.</i>	Cuba.
12			iv	12	Lymnæa rubella <i>Lea.</i>	Oahu.
Vol. ix. 1846.						
281	xlii	11	iv	39	Unio superbus <i>Lea.</i>	New Holland.
282	xlii	12	iv	50	aratus <i>Lea.</i>	
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New Fresh Water and Land Shells.

282	xxiv	41	v	38	Ingallsianus <i>Lea.</i>	Siam.
288	xxvi	48	v	43	Anodonta Trautrimiana <i>Lea.</i>	Carthageria.
288	xxvi	49	v	43	Wheatleyi <i>Lea.</i>	Para, S. A.
291	xxviii	54	v	47	tortilis <i>Lea.</i>	Carthageria.
292	xxiv	55	v	48	Schröteriana <i>Lea.</i>	Rio Negro, Br.
295			v	51	Basistoma <i>Lea</i> (n. g.)	
296	xxx	1	v	52	Edwardsi <i>Lea.</i>	Tecotinus r., S.A.

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Vol. ii. Jan. 1852.

125	On the genus <i>Acostrea</i> of D'Orbigny, a Fresh Water Lamellibranchiata (pp. 125-132).				
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New Fresh Water and Land Shells.

289	xxi	1	vi	9	Unio Hainesianus <i>Lea.</i>	Siam.
290	xxii	2	vi	10	Myersianus <i>Lea.</i>	Siam.
291	xxiii	3	vi	11	Housei <i>Lea.</i>	Siam.
291	xxiv	4	vi	11	luteus <i>Lea.</i>	Newville, Bur-
					U. luteus <i>Lea.</i>	[mah.
292	xxiv	5	vi	12	gravidus <i>Lea.</i>	Siam.
293	xxiv	6	vi	13	inornatus <i>Lea.</i>	Siam.
294	xxv	7	vi	14	rusticus <i>Lea.</i>	Siam.
294	xxv	8	vi	14	eximius <i>Lea.</i>	Siam.
295	xxv	9	vi	15	tumidulus <i>Lea.</i>	Siam.
296	xxvi	10	vi	16	humilis <i>Lea.</i>	Siam.

[Lea, Observations, &c.]

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Pa.	Pl.	Fig.	V.	Pa.		
297	xxvi	11	vi	17	Unio phaselus <i>Lea.</i>	Siam.
298	xxvi	12	vi	18	sagittarius <i>Lea.</i>	Siam.
299	xxvi	13	vi	19	scobinatus <i>Lea.</i>	Siam.
300	xxvi	14	vi	20	substriatus <i>Lea.</i>	Siam.
300	xxvii	15	vi	20	Africanus <i>Lea.</i>	C. of Good Hope.
301	xxvii	16	vi	21	Verreaudianus <i>Lea.</i>	C. of Good Hope.
302	xxvii	17	vi	22	Shurtleffianus <i>Lea.</i>	Sina river, India.
303	xxviii	18	vi	23	effulgens <i>Lea.</i>	Brazil.
304	xxviii	19	vi	24	Shuttleworthii <i>Lea.</i>	Australia.
305	xxviii	20	vi	25	Dunkerianus <i>Lea.</i>	Rio de Janeiro.
306	xxviii	21	vi	26	nucleus <i>Lea.</i>	Siam.
307	xxix	22	vi	27	Brownii <i>Lea.</i>	Mocha?
308	xxix	23	vi	28	Wheatleyanus <i>Lea.</i>	R. Negro, Plata.
309	xxix	24	vi	29	Suavidicus <i>Lea.</i>	River Amazon.
310	xxx	25	vi	30	Nuttallianus <i>Lea.</i>	India.
312	xxx	27	vi	32	Newcombianus <i>Lea.</i>	Nicaragua.
313	xxx	28	vi	33	Cambodiensis <i>Lea.</i>	Tackrong river.
316	xxxii	31	vi	36	Anodonta Holtonis <i>Lea.</i>	Carthage, New
317			vi	37	Plagiodon <i>Lea</i> (n. s. g.)	[Grenada.
318	xxxii	32	vi	38	isocardioides <i>Lea.</i>	River Plata.
319	xxxiii	33	vi	39	Triquetra contorta <i>Lea.</i>	China.
					<i>T. lanceolata</i> <i>Lea.</i>	

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i 53 **Haldeman.**—(Same as p. 372.)i 53 **Pisidium diaphanum** *Hald.* Brazil?

May, 1846.

iii 66 **Phillips.**—Description of a new Fresh Water Shell, and observations on *Glandina obtusa* *Pfr.*: by JOHN S. PHILLIPS.

iii 66 i 11 **Physa princeps** *Phil.* Yucatan.

iii 66 i 33 **Glandina (Achatina) cylindracea** *Phil.* Yucatan.

G. obtusa *Pfr.*?

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iv 121

Conrad.—(Vide p. 373.)

iv 121

Triton nobilis *Conr.*

West Indies.

T. variegatus Rve.

Feb. 1850.

v 10

Conrad.—Descriptions of new species of Fresh Water Shells: by T. A. CONRAD. (Vide, also, p. 374.)

v 10

Unio cultelliformis *Conr.*

Bogan river, Australia.

v 10

Napeanensis *Conr.*

Napean riv., Australia.

v 10

Balonnensis *Conr.*

Balonne r., Australia.

v 10

Paludina sublineata *Conr.*

Darling r., Australia.

v 11

Physa pectorosa *Conr.*

Bogan river, Australia.

v 11

Australiana *Conr.*

Bogan river, Australia.

v 11

Melania tetrica *Conr.*

Rivers of Australia.

v 11

Balonnensis *Conr.*

Balonne r., Australia.

v 11

Lymnea perlevis *Conr.*

Salamanca and Balonne rs., Australia.

Oct. 1851.

v 277

I. Lea.—Notices on—

v 277

Mulleria Ferussacii *Lea.*

New Granada.

v 277

Guaduasana *D'Orb.*

New Granada.

Acostwa guaduasana D'Or.

March, 1852.

vi 54

I. Lea.—Description of a new species of Symphyote Unio: by I. LEA.

vi 54

Unio Cumingii *Lea.*

North of China.

Feb. 1852.

vi 267

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[Several foreign genera and sub-genera of Unionidæ are given.—W. G. B.]

Aug. 1853.

vi 376

I. Lea.—Notes on—

vi 376

Unio Kraussii *Lea.**Castalia sulcata* Krauss.

vi 376

Dipsas plicatus *Lea.*

Liberia.

Anodonta Herculea Midd.

vi 376

Unio superbus *Lea.*

Danu-Luar river.

U. macropterus Dunk.

vi 377

cucumoides *Lea.*

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U. Cumingii Dunk.

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vi 448 **T. A. Conrad.**—Synopsis of *Cassidula*, &c. (vide p. 383).

vi 448 ***Cassidula hippocastanum*.** Samar.

Murex hippocastanum Born.

Buccinum calcaratum Sol.

Cassidula calcarata Humphr.

Murex calcaratus Dill.

Pyrula galeodes Lam.

vi 448 ***melongena*.** West Indies.

Murex melongena Linn.

Pyrula melongena Lam.

vi 448 ***bispinosa* Contr.**

Pyrula bispinosa Phil.

vi 449 ***patula* Contr.** Caraccas Bay.

vi 449 **? *parasidiaca*.**

Pyrum parasidiacum Mart.

Pyrula nodosa Lam.

vi 449 **T. A. Conrad.**

Requienia Senseni Contr. = *Arietina* Contr. (n. s. g.)

Jan. 1854.

vii 1 **I. Lea.**—Note on—

Acostæa guaduasana D'Orb.

March, 1854.

vii 32 **Conrad.**—(Vide p. 384.)

vii 32 ***Bulimus lineolatus* Contr.** Volcano of Cartago,
Costa Rica.

June, 1855.

vii 375 **Stimpson.**—Descriptions of some of the new Marine
Invertebrata from the Chinese and Japanese Seas, &c. :
by WILLIAM STIMPSON, Zoologist to the United States
Surveying Expedition to North Pacific, Japan Seas,
&c., Lieut. John Rodgers, Commander.

vii 377 ***Ascidia tubifera* St.** China.

vii 377 ***calcata* St.** Japan.

vii 377 ***Schizascus* St. (n. g.)**

vii 377 ***pellucidus* St.** China.

vii 377 ***papillosus* St.** China.

vii 377 ***Molgula labeculifera* St.** China.

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vii	377	<i>Cynthia satsumensis St.</i>	Japan.
vii	377	<i>delicatula St.</i>	Tanegasima.
vii	377	<i>ocellifera St.</i>	China.
vii	378	<i>gemmata St.</i>	China.
vii	378	<i>araneosa St.</i>	China.
vii	378	<i>Coriocella punctata St.</i>	Ousima.
vii	378	<i>tuberosa St.</i>	China.
vii	378	<i>Aplysia laevigata St.</i>	Ousima.
vii	378	<i>Notarchus gibbosus St.</i>	China.
vii	378	<i>lineolatus St.</i>	Loo Choo.
vii	378	<i>Placobranchus guttatus St.</i>	Loo Choo.
vii	379	<i>Eolis humilis St.</i>	China.
vii	379	<i>Gymnodoris St. (n. g.)</i>	
vii	379	<i>maculata St.</i>	Loo Choo.
vii	379	<i>Polycera? ramulosa St.</i>	China.
vii	379	<i>Idalia tentaculata St.</i>	China.
vii	379	<i>Hemidoris St. (n. g.)</i>	
vii	379	<i>cœruleata St.</i>	China.
vii	379	<i>Doris indurata St.</i>	China.
vii	379	<i>gibberosa St.</i>	China.
vii	380	<i>olivacea St.</i>	Loo Choo.
vii	380	<i>Rogersii St.</i>	Kikaisima.
vii	380	<i>areolata St.</i>	Boninsima.
vii	380	<i>nigra St.</i>	Loo Choo, Kikaisima.
vii	380	<i>latens St.</i>	Loo Choo.
vii	380	<i>Onchis fruticosa St.</i>	Kikaisima.

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vii	387	<i>Cynthia angularis St.</i>	C. of Good Hope, Simon's Bay.
vii	387	<i>lævissima St.</i>	Port Jackson, Aus.
vii	387	<i>sabulosa St.</i>	Port Jackson, Aus.
vii	387	<i>dumosa St.</i>	Port Jackson, Aus.
vii	387	<i>Molgula inconspicua St.</i>	Port Jackson, Aus.
vii	387	<i>Ascidia sydneyensis St.</i>	Port Jackson, Aus.
vii	388	<i>succida St.</i>	Port Jackson, Aus.
vii	388	<i>Eolis cacaotica St.</i>	Port Jackson, Aus.
vii	388	<i>Tritonia pallida St.</i>	False Bay, C. of G. H.
vii	388	<i>Triopa lucida St.</i>	Simon's Bay, C. of G. H.
vii	388	<i>Goniodoris obscura St.</i>	Port Jackson, Aus.
vii	389	<i>Doris obtusa St.</i>	Port Jackson, Aus.
vii	389	<i>excavata St.</i>	Port Jackson, Aus.

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viii	79	Lea. —Description of a new sub-genus of Naiades: by ISAAC LEA.	
viii	79	Plagiodon <i>Lea</i> (n. s. g.)	
viii	79	isocardioides <i>Lea.</i>	Rio Plata.
viii	79	Lea. —Description of a new species of <i>Triquetra Klein</i> (<i>Hyria Lam.</i>): by ISAAC LEA.	
viii	79	Triquetra lanceolata <i>Lea.</i>	China?
viii	92	Lea. —Description of twenty-five new species of Exotic Uniones: by ISAAC LEA.	
viii	92	Unio Hainesianus <i>Lea.</i>	Siam.
viii	92	Myersianus <i>Lea.</i>	Siam.
viii	92	Housei <i>Lea.</i>	Siam.
viii	93	gravidus <i>Lea.</i>	Siam.
viii	93	inornatus <i>Lea.</i>	Siam.
viii	93	lutens <i>Lea.</i>	Newville, Burmah.
viii	93	eximius <i>Lea.</i>	Siam.
viii	93	tumidulus <i>Lea.</i>	Siam.
viii	93	rusticus <i>Lea.</i>	Siam.
viii	93	sagittarius <i>Lea.</i>	Siam.
viii	93	substriatus <i>Lea.</i>	Siam.
viii	93	scobinatus <i>Lea.</i>	Siam.
viii	93	humilis <i>Lea.</i>	Siam.
viii	94	phaselus <i>Lea.</i>	Siam.
viii	94	Verreauianus <i>Lea.</i>	Cape of Good Hope.
viii	94	Africanus <i>Lea.</i>	Cape of Good Hope.
viii	94	Shurtleffianus <i>Lea.</i>	Sina river, &c., India.
viii	94	exfulgens <i>Lea.</i>	Brazil.
viii	94	Dunkerianus <i>Lea.</i>	Brazil, &c.
viii	94	Shuttleworthii <i>Lea.</i>	Australia.
viii	94	nucleus <i>Lea.</i>	Siam.
viii	94	Wheatleyanus <i>Lea.</i>	Rio Plata, Rio Negro.
viii	95	Brownii <i>Lea.</i>	Mocha?
viii	95	suavidicus <i>Lea.</i>	River Amazon.

May, 1856.

viii	103	Lea. —Description of four new species of Exotic Uniones: by ISAAC LEA.	
viii	103	Unio Nuttallianus <i>Lea.</i>	India.
viii	103	Cambodiensis <i>Lea.</i>	Takrong riv., at Korat, Cambodia.
viii	105	Newcombianus <i>Lea.</i>	Lake Nicaragua.

[Proceedings Academy of Natural Sc.]

June, 1856.

Vol. Pa.

viii 109

Lea.—Description of thirteen new species of Exotic Peristomata: by ISAAC LEA.

viii 109

Paludina Hainesiana *Lea.* Siam.

viii 109

umbilicata *Lea.* Takrong river, Siam.

viii 110

chinensis *Lea.* China.

viii 110

Swainsoniana *Lea.* Siam.

viii 110

Ingallsiana *Lea.* Siam.

viii 110

Bithinia Siamensis *Lea.* Takrong river, Siam.

viii 110

globula *Lea.* India.

viii 110

Paludomus maculata *Lea.* Ahmednugger, India.

viii 110

Ampullaria aurostoma *Lea.* Carthage.

viii 110

tubæformis *Lea.*

viii 110

gracilis *Lea.* Siam.

viii 110

turbinis *Lea.* Siam.

viii 111

Assimineæ carinata *Lea.* Siam.

Aug. 1856.

viii 144

Lea.—Description of fifteen new species of Exotic Melaniana: by ISAAC LEA.

viii 144

Melania Verrauiana *Lea.* Sandwich Islands.

viii 144

fraterna *Lea.*

viii 144

Hainesiana *Lea.* India. [Siam.

viii 144

Houzei *Lea.* Korat, Takrong river,

viii 144

Ningpoensis *Lea.* Ningpo, China.

viii 145

Myersiana *Lea.* Feejee Islands.

viii 145

bullata *Lea.* Brazil.

viii 145

lyræformis *Lea.* Manilla.

viii 145

affinis *Lea.* Manilla.

viii 145

australis *Lea.* Manilla.

viii 145

Newcombii *Lea.* Oahu.

viii 145

Maniensis *Lea.* Maui.

viii 145

Boninensis *Lea.* Bonin Island.

viii 145

Pachychilus parvum *Lea.* Siam.

Dec. 1856.

viii 300

Isaac Lea.—Notes on—

viii 300

Triquetra contorta *Lea.* Shanghai.

T. lanceolata *Lea.*

New Series, March, 1857.

Page.

85 **Lea.**—Descriptions, &c., vide p. 387.

85

Anodonta Holtoni *Lea.*

Papayan, South America.

[Proceedings Academy of Natural Sc.]

May, 1858.

Page.

- 118 **Lea.**—Description of four new Fresh Water Mollusca from the Isthmus of Darien and Honduras: by ISAAC LEA.
- 118 **Unio Caldwellii** *Lea.* Isthmus of Darien.
- 118 **Goascoranensis** *Lea.* Riv. Goascoran, Honduras.
- 118 **Anodonta luteola** *Lea.* Isthmus of Darien.
- 118 **Melania planensis** *Lea.* Plan, &c., Honduras.

May, 1859.

- 151 **Lea.**—Descriptions of twenty-one new species of Exotic Unionidæ: by ISAAC LEA.

- 151 **Unio Sikkimensis** *Lea.* Sikkim, India.
- 151 **diminutis** *Lea.* East Africa.
- 152 **plicatulus** *Lea.* Borneo.
- 152 **navigioliformis** *Lea.*
- 152 **fluctiger** *Lea.*
- 152 **mutabilis** *Lea.* Australia, &c.
- 152 **Thwaitsii** *Lea.* Ceylon.
- 152 **melleus** *Lea.*
- 152 **Dysoni** *Lea.* Honduras.
- 152 **Demararaensis** *Lea.* Demarara.
- 152 **Mauritianus** *Lea.* Mauritius.
- 153 **vittatus** *Lea.* Australia.
- 153 **Shanghaiensis** *Lea.* Shanghai.
- 153 **Layardii** *Lea.* Ceylon.
- 153 **Japanensis** *Lea.* Japan.
- 153 **Sumatrensis** *Lea.* Sumatra.
- 153 **Rowellii** *Lea.* Chagres riv., N. Granada.
- 153 **Wilsoni** *Lea.* Isaac's Plain, N. S. W.
- 154 **Anodonta Dahomeyensis** *Lea.* Dahomey.
- 154 **Senegalensis** *Lea.* Senegal.

July, 1859.

- 187 **Lea.**—Descriptions of four new species of Exotic Unionidæ: by ISAAC LEA.

- 187 **Unio bulloides** *Lea.* R. de la Plata.
- 187 **Monochondylæa planulata** *Lea.* Java.
- 187 **rhomboidea** *Lea.* Euphrates, near Bagdad.
- 187 **Unio rudus** *Lea.* R. de la Plata.

Oct. 1859.

- 281 **Lea.**—Description of a new species of *Unio* from the Isthmus of Darien: by ISAAC LEA.

- 281 **Unio Averyi** *Lea.* Isthmus of Darien.

[Proceedings Academy of Natural Sc.]

Dec. 1859.

Page.

331 **Lea.**—Descriptions of three new species of Exotic Uniones: by
ISAAC LEA.

331	Unio Wynegungaensis Lea.	Bengal, &c.
331	consobrinus Lea.	China.
331	Nangpoorensis Lea.	Nangpoor, &c.

Lesueur, Conrad, &c.—Journal of the Academy of
Natural Sciences of Philadelphia.¹

Vol. i, pt. 1, No. 1. May, 1817.

Pa. Pl. Fig.

3 **Lesueur.**—Description of six new species of the genus
Firola, observed by Messrs. Lesueur and Peron in the
Mediterranean Sea, in the months of March and April,
1809: by C. A. LESUEUR. (Vide also, Bull. Sc. Soc.
Philom. 1817, pp. 157-160; and Isis, 1818, p. 155.)

3 Genus **Firola**.

6 i	1	Firola mutica Les.
6 i	2	gibbosa Les.
7 i	3	Forskalia Les.
7 i	4	Cuviera Per. §. Les.
7 i	5	Frederica Les.
7 i	6	Peronia Les.

Vol. 1, pt. 1, No. 3. July, 1817.

37 **Lesueur.**—Characters of a new genus, and descriptions
of three new species upon which it is formed: discovered
in the Atlantic Ocean, in the months of March and April,
1816. Lat. 20° 9': by C. A. LESUEUR.

38 **Firaloida** Les. (n. g.)

39 ii	1 ^b	Desmarestia Les.	Near Martinique.
39 ii	2 ^a	Blainvilliana Les.	Near Martinique.
40 ii	3	aculeata Les.	
40 ii	4, 10	Anatomy of Firola .	

Vol. ii, pt. 1. 1821.

Lesueur.—(See p. 6.)

[The following foreign species are also given.—W. G. B.]:—

89	Leachia (n. g.)	
90 vi	Leachia cyclura Les.	Pacific Ocean.

¹ The date of actual publication of each page is given on p. 58, vol. i, of Proc. A. N. S.

[Journal of the Academy.]

Pa.	Pl.	Fig.		
90	vii		Loligo Bartrami Les.	
95	?		Bartlingii Les.	Gulf Stream.
100			Sepiola cardioptera Peron.	Lat. 31° S., long. 48° E.
100			Sepia sepiola Peron.	Endrach, N. Holland.
101			<i>octopa</i> Peron = Peronii Les.	Dorre, Shark Bay.
101			<i>rugosa</i> Peron non Bosc. = Sepia Boscii Les.	
101			varietas Peron.	Dorre Island.

Vol. ii, pt. 2. 1822.

296 **Lesueur.**—On the *Onykia angulata*: by C. A. LESUEUR.

298 ? 1, 2 **Onykia angulata** Les. Lat. 36° 40' S., long.
(See also p. 100 of same vol.) [29° E.]

Vol. iii, pt. 1. 1823.

2 **Lesueur.**—Descriptions of several new species of
Ascidia: by C. A. LESUEUR. (See also *Philosp. Mag.*,
vol. 63, 1824, p. 321; and *Isis*, 1834, p. 160.)

2	i	2	Ascidia atra Les.	St. Vincent's, &c.
2	i	1	cavernosa Les.	St. Bartholomew.
3	ii	1	albeola Les.	Guadaloupe.
4	ii	2, 3, 4	multiformis Les.	Guadaloupe.
4	ii	5	variabilis Les.	St. Thomas.
5	i	3	claviformis Les.	St. Vincent's.
5	iii	b	plicata Les.	Ship Bottom.
6	iii	a	ovalis Les.	Ship Bottom.
7			lobifera Les.	

[Here follows a list, without descriptions of species, observed by
Peron and Lesueur in their voyage to Terra Australis.—W. G. B.]

8		marginella.	New Holland, &c.
8		vermiculata.	New Holland.
8		anatifoidea.	Isle of France.
8		confederata.	New Holland.
8		trinema.	Leuwin's Land.
8		fragum.	Elephant Bay, &c.
8		truncata.	Bass' Straits.
8		rapuliformis.	Endracht's Land.
8		gigantea.	Bourgainville Bay.
8		lithopoda.	Décres Island.
8		rhizophora.	Endracht's Land.
8		rosea.	Bourgainville Bay.
8		alba.	Bourgainville Bay.
8		barbata.	Nice, Europe.
8		pilosa.	Isle of France.

[Journal of the Academy.]

Pa. Pl. Fig.

8	Ascidia fasciata.	Isle of France.
8	radiata.	Havre, Europe.
8	diaphana.	King's Island.
8	phyllostoma.	King's Island, &c.
8	tetradon.	Josephine's Island, &c.
8	peniformis.	Nuyt's Land.
8	australis.	Maria's Island.
8	lithoidea.	Leuwin's Land.
8	nigrita.	Edel's Land.
8	rhizophora.	Napoleon's Land.
8	anthropocephala.	St. Francis' Land, &c.
8	nasuta.	N.W. Coast of N. Hol'd.
8	democratica.	St. Francis' Land, &c.
8	verrucosa.	King's Island.
8	polystoma.	King's Island.

Vol. vi, pt. 2. March, 1831.

256 **Conrad.**—(Vide p. 337.)262 xi 21 **Nucula recurva** *Conr.* West Indies.262 xi 9, 10 **Lucina sphæroides** *Conr.* Liberia.*Tellina divaricata* Ch.

Vol. vii, pt. 1. 1834.

178 **Conrad.**—Description of a new genus of Fresh Water Shells: by T. A. CONRAD.180 xiii **Pleiodon Macmurtrei** *Conr.* Liberia.182 **Conrad.**—Description of a new species of Hinnita: by T. A. CONRAD.182 xiv **Hinnita Poulsoni** *Conr.*

Vol. vii, pt. 2. 1837.

227 **Conrad.**—(Vide p. 419.)

Conrad.—Notes on Shells, with descriptions of new genera and species: by T. A. CONRAD. (From Journ. Ac. Nat. Sc. Phila., n. s., vol. i, No. 3, p. 210. Aug. 1849.) (Vide also, p. 404.)

[The foreign species only are here given.—W. G. B.]

Page.

210	Cassis cornuta <i>Linn.</i>	East Indies.
	<i>Buccinum brevirostrum</i> Petiver.	
	<i>Cassis Amboincensis</i> Petiver.	

Page.		
210	Cassis labiata Chemn.	Indies.
211	tuberosa Linn.	
	<i>Cochlea cassidiformis</i> Gualt.	
	<i>Cassis flammaea</i> .	
211	Triton tuberosus .	
211	pyriformis .	
212	variegatus Lam.	East Indies.
	<i>Buccinum tritonis</i> Petiver.	
	<i>Murex tritonis</i> Linn.	
212	nobilis Conr.	West Indies.
	<i>T. variegatus</i> Rve.	
212	variegatus .	West Indies.
213	Nautilus perforatus Conr.	
214	Pecten fragosus Conr. (pl. xxxix, f. 11).	West Indies.

Garratt.—(Descriptions of Hawaiian Shells.) In Proc. California Acad. Nat. Sciences, San Francisco. Vol. i, part 2. March, 1857, p. 102.

Page.		Page.	
102	Murex exigua Garr.	103	Rissoa multicostata Garr.
102	Purpura striatella Garr.	103	Adeorbis costata Garr.
102	Turbo multilineata Garr.	103	Hipponix (Amalthea) minor Garr.
102	Trochus striatula (Margarita) Garr.	103	Bulla scripta Garr.
102	Pleurotoma (Mangelia) reticulata Garr.	103	Succinea Newcombiana Garr.
102	Rissoa crassilabrum Garr.		

Barnes, Redfield, Adams, &c.—Annals of the Lyceum of Natural History of New York.

Vol. i, pt. 1. 1824.

Pl. Fig.

131 **Barnes.**—Notice of several species of Shells: by D. H. BARNES.

[A criticism by Ferussac on this paper in which the descriptions are repeated will be found in the Bulletin des Sciences Naturelles et de Géologie, 2ème section du Bulletin Universel des Sciences, &c. &c. Tome v, p. 282. Paris, 1825.—W. G. B.]

132	ix	1	Cypræa maculata Barnes.	East Indies.
			<i>C. Arabica</i> Burrow.	

[Annals of New York Lyceum.]

Pa.	Pl.	Fig.		
133	ix	2	<i>Cypræa eburnea</i> Barnes.	China
135	ix	3	<i>Dolium dentatum</i> Barnes.	Peru.
136			<i>Natica patula</i> Sowb.	Peru.
			<i>N. helicoides</i> Barnes, MS.	
139	ix	4	<i>Voluta harpa</i> Barnes.	Peru.

Vol. i, pt. 2. 1825.

383 (Continuation.)

384 *Dolium dentatum* Barnes = *D. ringens*?385 *Natica helicoides* (vid. also Ann. vol. ii. 292).385 *Cypræa maculata*.[Plate ix contains also figures of two species not mentioned in the text. They are probably *Cerithium* — ?—W. G. B.]

Vol. iv, pt. 5. 1846.

163 **Redfield.**—Descriptions of some new species of Shells :
by JOHN H. REDFIELD. (See also, p. 164 of Bibl.)

163	x	4 ^{a, b}	<i>Marginella flavida</i> Redf.	Cuba, &c.
164	x	5 ^{a, b}	<i>obesa</i> Redf.	Carthagera, S. Amer.
166	x	6 ^{a, b}	<i>Ranella Thersites</i> Redf.	Pacific?
168	xi	1 ^{a, b, c}	<i>Cardium setosum</i> Redf.	China.

169 **Jay.**—Descriptions of new species of Shells : by JOHN C.
JAY, M. D.

169	x	7 ^{a, b}	<i>Bulimus infundibuliformis</i> Jay.	Bolivia.
169	x	8 ^{a, b}	<i>Conus Cailliaudii</i> Jay.	

170 Notes on—

170			<i>Bulimus cinctus</i> Jay = <i>B. Favonii</i> Lam.	Madagascar.
170			<i>Turbo rotelliformis</i> Jay = <i>Trochiscus Norrisii</i> Sowb.	
170			<i>Ampullaria Brownii</i> Jay = <i>A. crassa</i> Swains.	
170			<i>Storeria</i> Jay = <i>A. naticoides</i> D'Orb.	
170			<i>Helix planorbis</i> Jay = <i>H. monilis</i> Br.	
170			<i>Physa scalaris</i> Jay.	
170			<i>Lymnea gracilis</i> Jay.	
170			<i>Bulimus ustulatus</i> Jay = <i>B. chrysalidiformis</i> Sowb.	
170			<i>Paludina tristis</i> Jay = <i>P. olivacea</i> Sowb.	
170			<i>Conus rhododendron</i> Couth. = <i>C. Adamsoni</i> Gr.	
170			<i>Cyclostoma Cumingii</i> Sowb. = <i>C. gigantea</i> Sowb.	
170			<i>Voluta armata</i> ? Lam. = <i>V. Miltoni</i> Gr.	

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Vol. iv. 1847.

Pa. Pl. Fig.

- 477 **Redfield.**—On the distinctive characters of *Cypræa reticulata* of Martyn, and *Cypræa histrio* of Meuschen: by JOHN H. REDFIELD.
- 482 xvi 1 **Cypræa reticulata** Mart. Pacific Ocean.
 C. arlequina (var.) Chemn.
 histrio (pars) Gmel.
 arabica (var.) *histrio* Gr.
 maculata Barnes, &c. &c.
- 484 xvi 2 *histrio* Meuschen. Indian Ocean?
 C. arlequina Ch.
 arabica (var.) *histrio* (pars) Gray.
- 491 **Redfield.**—Descriptions of new species of *Bullia* and *Marginella*, with notes upon G. B. Sowerby, Jr.'s monograph of the latter genus: by JOHN H. REDFIELD.
- 491 xxii 1 **Bullia plicata** Redf.?
- 492 xxii 2 **Marginella chrysomelina** Red. West Indies?
- 492 xxii 3 **Philippinarum** Redf. Philippine Islands.
 M. arcna Sowb. non Kien.
- 493 *cœrulescens* Lam.
- 493 *Storeria* Couth.
- 493 *unicolor* List.
- 493 *curta* Sowb.
- 493 *elegans* Gmel.
- 493 *undulata* Ch.
- 493 *conoidalis* Kien.
- 493 *apicina* Mke.
- 493 *flavida* Redf.
- 493 *triticea* Lam.
- 493 *guttata* Swains.
- 493 *longivaricosa* Lam.
- 493 *maculosa* Kien.
- 493 *obesa* Redf.
 M. similis Sowb.
- 493 *pyrulata* Redf.
 M. obesa Sowb.
- 495 *persicula* Linn.
- 495 *carnea* Storer.
- 495 *guttata* Dillw.
- 495 *avellana* Lam.
- 495 *lineata* Lam.
- 495 *cingulata* Dillw.

[Annals of New York Lyceum and Contributions to Conchology.]

Vol. v, title page. 1852.

N. Y. ANN. CONTR.
Page. No. Page.

- 41 8 125 **Adams.**—Descriptions of new species of *Partula*
and *Achatinella*: by Prof. C. B. ADAMS.

[As this and the following papers were also issued as portions
of "Contributions to Conchology," I refer to that work as well
as to the New York Annals.—W. G. B.]

- 41 8 125 **Partula diminuta** *Ad.*
41 8 125 **Achatinella magna** *Ad.*
42 8 126 **Tappaniana** *Ad.* Sandwich Islands.
42 8 126 **Dimondi** *Ad.* Sandwich Islands.
43 8 127 var. ? **lata** *Ad.* Sandwich Islands.
43 8 127 **decepta** *Ad.*
44 8 128 **modesta** *Ad.* Sandwich Islands.
44 8 128 **Reevei** *Ad.*
A. viridans Rve. not Mighels.
- 45 8 129 **Adams.**—Descriptions of new species and varieties
of Shells which inhabit Jamaica: by Prof. C. B.
ADAMS. (From same, p. 45.)
- 45 8 129 **Cyclostoma pulchrius** *Ad.* = *C. Binneyanum* Pfr.
45 8 129 **Cylindrella nobilior** (Pupa) *Ad.* = *C. Bin-*
neyana Pfr.
- 45 8 129 *Helix arboreoides* *Ad.* = **H. Haldemaniana** Pfr.
46 8 130 **Marginella gracilis** *Ad.*
46 8 130 **Buccinum pulchellum** *Ad.*
47 8 131 **Pleurotoma albella** *Ad.*
47 8 131 **Valvata inconspicua** *Ad.*
47 8 131 **Planorbis humilis** *Ad.*
48 8 132 **dentiferus** *Ad.*
48 8 132 var. **edentatus** *Ad.*
48 8 132 **Ancylus obliquus** *Ad.*
48 8 132 **Truncatella modesta** *Ad.*
49 8 133 **Helicina nobilis** *Ad.*
49 8 133 **hirsuta** *Ad.*
50 8 134 **palliata** *Ad.*
50 8 134 **maxima** *Ad.*
50 8 134 **ampliata** *Ad.*
50 8 134 **consanguinea** *Ad.*
51 8 135 **microstoma** *Ad.*
52 8 136 **depressa** *Ad.*
52 8 136 **Trochatella Josephinæ** *Ad.*
52 8 136 **Tankervillii** *Ad.*

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Page.	No.	Page.	
53	8	137	<i>Cyclostoma sagittiferum</i> Ad.
54	8	138	<i>lamellosum</i> Ad.
54	8	138	<i>simulans</i> Ad.
55	8	139	<i>tenuistriatum</i> Ad.
55	8	139	<i>modestum</i> Ad.
55	8	139	<i>fimbriatulum</i> Ad.
56	8	140	<i>lincina</i> Ad.
56	8	140	<i>nodulosum</i> Ad.
56	8	140	<i>granosum</i> Ad.
56	8	140	Adams. —Analysis of the group of species of <i>Cyclostoma</i> , which is represented by <i>C. Jamaicense</i> Chem. (From same.)
59	8	143	<i>Cyclostoma corrugatum</i> ? Sowb.
59	8	143	<i>jugosum</i> Ad.
59	8	143	<i>pallescens</i> Ad.
59	8	143	<i>varians</i> Ad.
59	8	143	<i>seminudum</i> Ad.
59	8	143	<i>Jamaicense</i> Chemn.
59	8	143	<i>crassum</i> Ad.
64	8	148	<i>Stoastoma</i> Ad.
64	8	148	<i>Cyclostoma succineum</i> Sowb.
64	8	148	<i>Stoastoma Vilkinsoniæ</i> Ad.
65	8	149	<i>Tappanianum</i> Ad.
65	8	149	<i>Hollandianum</i> Ad.
66	8	150	<i>Moricandianum</i> Ad.
67	8	151	<i>Petitianum</i> Ad.
67	8	151	<i>Anthonianum</i> Ad.
77	9	153	Adams. —Descriptions of new species and varieties of the Land Shells of Jamaica, with notes on some previously described species: by Prof. C. B. ADAMS. (From same.)
77	9	153	<i>Cyclostoma Hillianum</i> (var.) <i>leporilabre</i> Ad.
77	9	153	<i>Cyclostoma spinulosum</i> Ad. = <i>C. lincinellum</i> Lam.
77	9	153	<i>Cyclostoma Moussonianum</i> Ad.
78	9	154	<i>Cyclostoma amandum</i> Ad. = <i>C. scabriculum</i> Sowb.
78	9	154	<i>Cyclostoma virgineum</i> Ad. = <i>C. pisum</i> Ad.
78	9	154	<i>Cyclostoma concentricum</i> Ad. = <i>C. variabile</i> Ad.
78	9	154	<i>Cyclostoma mutatum</i> Ad. = <i>C. articulatum</i> Sowb.
78	9	154	<i>Cyclostoma filosum</i> Sowb. = <i>C. articulatum</i> Gray.
78	9	154	<i>Campbellii</i> Ad.

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Page.	No.	Page.	
79	9	155	Cyclostoma xanthostoma <i>Ad.</i>
79	9	155	<i>ignilabre</i> <i>Ad.</i>
79	9	155	<i>Cyclostoma proximum</i> <i>Ad.</i> = <i>C. fascia</i> <i>Gray.</i>
79	9	155	Cyclostoma nitens <i>Ad.</i>
79	9	155	<i>Augustæ</i> <i>Ad.</i>
79	9	155	<i>Jayanum</i> <i>Ad.</i>
79	9	155	<i>Augustæ</i> <i>Ad.</i>
79	9	155	<i>Chevalieri</i> <i>Ad.</i>
80	9	156	<i>album</i> (var.) <i>fuscum</i> <i>Ad.</i>
80	9	156	<i>Yallahense</i> <i>Ad.</i>
80	9	156	<i>sericinum</i> <i>Ad.</i>
81	9	157	<i>Tappanianum</i> <i>Ad.</i>
81	9	157	<i>papyraceum</i> <i>Ad.</i>
81	9	157	<i>perpallidum</i> <i>Ad.</i>
81	9	157	<i>dubiosum</i> <i>Ad.</i>
82	9	158	Stoastoma Philippianum <i>Ad.</i>
82	9	158	<i>Agassizianum</i> <i>Ad.</i>
83	9	159	Trochatella pulchella <i>Ad.</i>
83	9	159	<i>Helicina neritella</i> <i>Ad.</i>
83	9	159	Geomelania Hilliana <i>Ad.</i>
83	9	159	<i>pyramidata</i> <i>Ad.</i>
84	9	160	<i>costulosa</i> <i>Ad.</i>
84	9	160	<i>exilis</i> <i>Ad.</i>
84	9	160	<i>Hilliana</i> <i>Ad.</i>
84	9	160	<i>striosa</i> <i>Ad.</i>
84	9	160	<i>conica</i> <i>Ad.</i>
84	9	160	Cylindrella Agnesiana (var.) <i>diminuta</i> <i>Ad.</i>
84	9	160	<i>Robertsi</i> <i>Ad.</i>
85	9	161	<i>rosea</i> <i>Ad.</i>
85	9	161	var. <i>fortis</i> <i>Ad.</i>
85	9	161	<i>major</i> <i>Ad.</i>
85	9	161	<i>zonata</i> <i>Ad.</i>
85	9	161	<i>lata</i> <i>Ad.</i>
85	9	161	<i>Maugeri</i> <i>Ad.</i>
86	9	162	var. <i>nigrescens</i> <i>Ad.</i>
86	9	162	<i>solida</i> <i>Ad.</i>
86	9	162	<i>levis</i> <i>Ad.</i>
87	9	163	<i>tricolor</i> <i>Ad.</i>
87	9	163	<i>crassa</i> <i>Ad.</i>
87	9	163	<i>unicincta</i> <i>Ad.</i>
88	9	164	<i>bicincta</i> <i>Ad.</i>
88	9	164	<i>concinna</i> <i>Ad.</i>
88	9	164	<i>sinuata</i> <i>Ad.</i>

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88	9	164	<i>fusiformis</i> <i>Ad.</i>
89	9	165	<i>albida</i> <i>Ad.</i>
89	9	165	<i>valida</i> <i>Ad.</i>
89	9	165	<i>unicolor</i> <i>Ad.</i>
89	9	165	<i>striatula</i> <i>Ad.</i>
89	9	165	<i>striata</i> <i>Ad.</i>
89	9	165	<i>corpulenta</i> <i>Ad.</i>
89	9	165	<i>fusca</i> <i>Ad.</i>
90	9	166	<i>conica</i> <i>Ad.</i>
90	9	166	<i>tesselata</i> <i>Ad.</i>
90	9	166	<i>cinerea</i> <i>Ad.</i>
90	9	166	<i>gracilis</i> <i>Ad.</i>
90	9	166	<i>integra</i> <i>Ad.</i>
91	9	167	<i>princeps</i> <i>Ad.</i>
91	9	167	<i>elatior</i> <i>Ad.</i>
91	9	167	<i>Achatina striosa</i> <i>Ad.</i> = Bulimus octonoides <i>Ad.</i>
91	9	167	<i>Achatina proxima</i> <i>Ad.</i>
92	9	168	<i>solitaria</i> <i>Ad.</i>
92	9	168	Spiraxis brevis <i>Ad.</i>
92	9	168	<i>aberrans</i> <i>Ad.</i>
92	9	168	<i>Bulimus mirabilis</i> <i>Ad.</i> and <i>anomalus</i> = Spiraxis.
92	9	168	Bulimus hortensis <i>Ad.</i>
93	9	169	<i>macrospira</i> <i>Ad.</i>
93	9	169	Helix Chittyana <i>Ad.</i>
93	9	169	<i>cara</i> <i>Ad.</i>
93	9	169	<i>amabilis</i> <i>Ad.</i>
93	9	169	Swainsoniana <i>Ad.</i>
94	9	170	<i>ingens</i> <i>Ad.</i>
94	9	170	<i>consanguinea</i> <i>Ad.</i>
95	9	171	<i>anomala</i> <i>Ad.</i>
95	9	171	<i>Bainbridgei</i> <i>Ad.</i>
95	9	171	<i>Buddiana</i> <i>Ad.</i>
96	9	172	<i>Blandiana</i> <i>Ad.</i>
96	9	172	<i>pulchrior</i> <i>Ad.</i>
96	9	172	<i>Jacobensis</i> <i>Ad.</i>
97	9	173	<i>spretta</i> <i>Ad.</i>
97	9	173	var. <i>errans</i> <i>Ad.</i>
97	9	173	<i>epistylum</i> <i>Ad.</i>
98	9	174	<i>delaminata</i> <i>Ad.</i>
98	9	174	<i>osculans.</i>
98	9	174	Proserpina nitida <i>Ad.</i>

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- 98 9 174 **Physa Jamaicensis** *Ad.*
- 99 9 175 **Neritina Jamaicensis** *Ad.*
- 99 9 175 **tenebricosa** *Ad.*
- 100 9 176 **Adams and Chitty.**—Remarks on the habitats of certain species of Land Shells: by Prof. C. B. ADAMS and EDWARD CHITTY. (From same.)
- 100 9 176 **Cyclostoma labeo** *Ad.*
- 100 9 176 **asperulum** *Sowb.*
- 100 9 176 **corrugatum** *Ad.*
- 100 9 176 **Trochatella Greyana** *Pfr.*
- 100 9 176 **Helicina Gossei** *Pfr.*
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- 100 9 176 **Cylindrella alabastrina** *Pfr.*
- 100 9 176 **Humboldtiana** *Pfr.*
- 100 9 176 **variegata** *Pfr.*
- 100 9 176 **Bulimus rufescens** *Gray.*
- 100 9 176 **Helix Martiniana** *Pfr.*
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- 101 9 177 **angustata** *Fer.*
- 101 9 177 **Cyclostoma lincinellum** *Lam.*
- 101 9 177 **spinulosum** *Ad.*
- 101 9 177 **Banksianum** *Sowb.*
- 101 9 177 **hyacinthinum** *Ad.*
- 101 9 177 **mirabile** *Wood.*
- 101 9 177 **decussatulum** *Ad.*
- 101 9 177 **Cylindrella brevis** *Pfr.*
- 101 9 177 **Achatina leucozonias** *Ad.*
- 101 9 177 **Dominicensis** *Ad.*
- 101 9 177 **venusta** *Ad.*
- 101 9 177 **unicolor** *Pfr.*
- 101 9 177 **Cyclostoma Newcombianum** *Ad.*
- 101 9 177 **aurora** *Ad.*
- 101 9 177 **Tappanianum** *Ad.*
- (Errata to No. 8.)
- 102 9 178 **asperulum** *Ad.*

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103	9	179	<i>fimbriatulum</i> <i>Sowb.</i>
103	9	179	var. <i>docens</i> <i>Ad.</i>
103	9	179	<i>albinodatum</i> <i>Ad.</i>
103	9	179	<i>Chittyi</i> <i>Ad.</i>
103	9	179	<i>amabile</i> <i>Ad.</i>
103	9	179	<i>Hillianum</i> <i>Ad.</i>
103	9	179	var. <i>aculeosum</i> <i>Ad.</i>
103	9	179	<i>leporilabre</i> <i>Ad.</i>
103	9	179	<i>lincinellum</i> <i>Lam.</i>
			<i>C. spinulosum?</i> <i>Ad.</i>
103	9	179	<i>Moussonianum</i> <i>Ad.</i>
103	9	179	<i>scabriculum</i> <i>Sowb.</i>
			<i>C. amandum</i> <i>Ad.</i>
103	9	179	<i>lincinum</i> <i>Linn.</i>
103	9	179	<i>lima</i> <i>Ad.</i>
103	9	179	<i>Blandianum</i> <i>Ad.</i>
103	9	179	<i>retrorsum</i> <i>Ad.</i>
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			<i>C. virgineum</i> <i>Ad.</i>
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103	9	179	<i>intermedium</i> <i>Ad.</i>
103	9	179	<i>Grayanum</i> <i>Ad.</i>
			<i>C. obscurum</i> <i>Gray.</i>
103	9	179	<i>serriferum</i> <i>Ad.</i>
103	9	179	<i>granosum</i> <i>Ad.</i>
			<i>C. nodulosum</i> <i>Ad.</i>
103	9	179	var. <i>aberrans</i> <i>Ad.</i>
103	9	179	<i>pulchrius</i> <i>Ad.</i>
			<i>C. Binneyanum</i> <i>Pfr.</i>
103	9	179	<i>mutatum</i> <i>Ad.</i>
			<i>C. articulatum</i> <i>Sowb.</i>
103	9	179	<i>mirabile</i> <i>Wood.</i>
			<i>C. decussatum?</i> <i>Ad.</i>
103	9	179	<i>mirandum</i> <i>Ad.</i>
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104	9	180	<i>xanthostoma</i> <i>Sowb.</i>
104	9	180	<i>var. albilabre</i> <i>Ad.</i>
104	9	180	<i>tenuistriatum</i> <i>Ad.</i>
104	9	180	<i>ignilabre</i> <i>Ad.</i>
104	9	180	<i>var. albilabre</i> <i>Ad.</i>
104	9	180	<i>Newcombianum</i> <i>Ad.</i>
104	9	180	<i>fascia</i> <i>Gray.</i>
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104	9	180	<i>var. nitens</i> <i>Ad.</i>
104	9	180	<i>testudineum</i> <i>Ad.</i>
104	9	180	<i>rufilabre</i> <i>Ad.</i>
104	9	180	<i>sagittiferum</i> <i>Ad.</i>
104	9	180	<i>thysanoraphe</i> <i>Sowb.</i>
104	9	180	<i>Jayanum</i> <i>Ad.</i>
			<i>C. solidum</i> <i>Ad.</i> non Mke.
104	9	180	<i>var. rufilabre</i> <i>Ad.</i>
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104	9	180	<i>Redfieldianum</i> <i>Ad.</i>
104	9	180	<i>labeo</i> <i>Müll.</i>
104	9	180	<i>Humphreysianum</i> <i>Pfr.</i>
			<i>C. pictum</i> <i>Sowb.</i>
104	9	180	<i>interruptum</i> <i>Lam.</i> non <i>Deless.</i>
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104	9	180	<i>Chevalieri</i> <i>Ad.</i>
104	9	180	<i>var. album</i> <i>Ad.</i>
104	9	180	<i>virgatum</i> <i>Ad.</i>
104	9	180	<i>album</i> <i>Lam.</i>
104	9	180	<i>var. fuscum</i> <i>Ad.</i>
104	9	180	<i>Bronnii</i> <i>Ad.</i>
104	9	180	<i>var. fuscolineatum</i> <i>Ad.</i>
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			<i>C. quinque-fasciatum</i> <i>Ad.</i>
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104	9	180	<i>maritimum</i> <i>Ad.</i>
104	9	180	<i>aurora</i> <i>Ad.</i>
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104	9	180	<i>Adamsi</i> <i>Pfr.</i>
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104	9	180	<i>Duffianum</i> <i>Ad.</i>
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104	9	180	<i>suturale</i> <i>Sowb.</i>
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105	9	181	<i>Philippianum</i> <i>Ad.</i>
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105	9	181	Moricandianum <i>Ad.</i>
105	9	181	Jayanum <i>Ad.</i>
105	9	181	Leanum <i>Ad.</i>
105	9	181	Lucidella aureola <i>Gray.</i>
105	9	181	var. granulosa <i>Ad.</i>
105	9	181	Trochatella Tankervillii <i>Gray.</i>
105	9	181	pulchella <i>Gray.</i>
105	9	181	var. multicarinata <i>Ad.</i>
105	9	181	nobilis <i>Ad.</i>
105	9	181	Grayana <i>Pfr.</i>
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105	9	181	albolabris <i>Ad.</i>
105	9	181	citrinolabris <i>Ad.</i>
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105	9	181	var. intermedia <i>Ad.</i>
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			<i>II. Guildingiana</i> <i>Pfr.</i>
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105	9	181	<i>aurantia</i> <i>Gray.</i>
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106	9	182	Truncatella scalaris <i>Mich.</i>
			<i>T. Cumingii</i> <i>Ad.</i>
			<i>costata</i> <i>Pfr.</i>
106	9*	182	<i>modesta</i> <i>Ad.</i>
106	9	182	<i>Adamsi</i> <i>Pfr.</i>
			<i>T. scalariformis</i> <i>Ad.</i>
106	9	182	<i>succinea</i> <i>Ad.</i>
106	9	182	Geomelania Greyana <i>Ad.</i>
106	9	182	<i>fortis</i> <i>Ad.</i>
106	9	182	<i>Jamaicensis</i> <i>Pfr.</i>
106	9	182	<i>magna</i> <i>Ad.</i>
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106	9	182	<i>gracilis</i> <i>Ad.</i>
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106	9	182	<i>typica</i> <i>Ad.</i>
106	9	182	var. <i>pygmæa</i> <i>Ad.</i>
106	9	182	<i>expansa</i> <i>Ad.</i>
106	9	182	<i>affinis</i> <i>Ad.</i>
106	9	182	<i>media</i> <i>Ad.</i>
106	9	182	<i>vicina</i> <i>Ad.</i>
106	9	182	<i>minor</i> <i>Ad.</i>
106	9	182	<i>Hilliana</i> <i>Ad.</i>
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106	9	182	<i>conica</i> <i>Ad.</i>
106	9	182	<i>pyramidata</i> <i>Ad.</i>
106	9	182	<i>costulosa</i> <i>Ad.</i>
106	9	182	<i>striosa</i> <i>Ad.</i>
106	9	182	<i>elegans</i> <i>Ad.</i>
106	9	182	Cylindrella gracilis <i>Wood.</i>
106	9	182	<i>elongata</i> <i>Chemn.</i>
			<i>C. Cumingii</i> <i>Ad.</i>
			<i>Chemnitziana</i> (<i>Helix</i>) <i>Fer.</i>
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106	9	182	<i>subula</i> Fcr.
106	9	182	<i>alabastrina</i> Pfr.
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106	9	182	<i>variegata</i> (var. γ) Pfr.
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106	9	182	<i>costulata</i> Ad.
106	9	182	<i>costulosa</i> Ad.
106	9	182	<i>Hydeana</i> Ad.
			<i>Bulinus Gossei</i> Pfr.
106	9	182	<i>Gossei</i> Pfr.
106	9	182	<i>Maugeri</i> Wood.
106	9	182	var. <i>nigrescens</i> Ad.
106	9	182	<i>solida</i> Ad.
106	9	182	<i>levis</i> Ad.
106	9	182	<i>tricolor</i> Ad.
107	9	183	<i>crassa</i> Ad.
107	9	183	<i>unicincta</i> Ad.
107	9	183	<i>bicincta</i> Ad.
107	9	183	<i>concinna</i> Ad.
107	9	183	<i>sinuata</i> Ad.
107	9	183	<i>rufilabris</i> Ad.
107	9	183	<i>citrina</i> Ad.
107	9	183	<i>fusiformis</i> Ad.
107	9	183	<i>albida</i> Ad.
107	9	183	<i>valida</i> Ad.
107	9	183	<i>unicolor</i> Ad.
107	9	183	<i>striatula</i> Ad.
107	9	183	<i>striata</i> Ad.
107	9	183	<i>corpulenta</i> Ad.
107	9	183	<i>fusca</i> Ad.
107	9	183	<i>conica</i> Ad.
107	9	183	<i>tesselata</i> Ad.
107	9	183	<i>cinerea</i> Ad.
107	9	183	<i>gracilis</i> Ad.
107	9	183	<i>integra</i> Ad.
107	9	183	<i>Hollandi</i> Ad.
107	9	183	var. <i>Augustæ</i> Ad.
107	9	183	<i>procera</i> Ad.
107	9	183	<i>montana</i> Ad.

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Page.	No.	Page.	
107	9	183	<i>Cylindrella rosea</i> Pfr.
107	9	183	var. <i>magna</i> Ad.
107	9	183	major Ad.
107	9	183	fortis Ad.
107	9	183	ambigua Ad.
107	9	183	<i>cylindrus</i> Chemn.
107	9	183	rubella Ad.
107	9	183	zonata Ad.
107	9	183	aspera Ad.
107	9	183	brevis Pfr.
107	9	183	var. <i>obesa</i> Ad.
107	9	183	columna Ad.
107	9	183	intermedia Ad.
107	9	183	<i>Gravesii</i> Ad.
107	9	183	lata Ad.
107	9	183	var. <i>producta</i> Ad.
107	9	183	nobilior Ad.
107	9	183	<i>Baquilana</i> Chitty.
107	9	183	carnea Ad.
107	9	183	var. <i>cerina</i> Ad.
107	9	183	sanguinea Pfr.
107	9	183	pupæformis Ad.
107	9	183	humilis Ad.
107	9	183	inornata Ad.
107	9	183	simplex Ad.
107	9	183	pusilla Ad.
107	9	183	rubra Ad.
107	9	183	elatior Ad.
107	9	183	princeps Ad.
107	9	183	<i>Dunkeri</i> Pfr.
107	9	183	similis Ad.
107	9	183	tenella Ad.
107	9	183	tenera Ad.
107	9	183	<i>Achatina solitaria</i> Ad.
107	9	183	ligata Ad.
107	9	183	<i>Jamaicensis</i> Pfr.
107	9	183	procera Ad.
107	9	183	<i>Griffithii</i> Ad.
107	9	183	<i>Philippiana</i> Pfr.
107	9	183	elegans Ad.
107	9	183	venusta Ad.
107	9	183	<i>leucozonias</i> Walch.
107	9	183	<i>Dominicensis</i> Gmel.

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107	9	183	Achatina nitida <i>Ad.</i>
107	9	183	<i>angiostoma</i> <i>Ad.</i>
107	9	183	<i>Ingallsiana</i> <i>Ad.</i>
107	9	183	<i>unicolor</i> <i>Ad.</i>
107	9	183	<i>Gayana</i> <i>Ad.</i>
107	9	183	<i>nemorensis</i> <i>Ad.</i>
107	9	183	<i>similis</i> <i>Ad.</i>
107	9	183	<i>Phillipsii</i> <i>Ad.</i>
107	9	183	<i>arcuata</i> <i>Pfr.</i>
107	9	183	<i>puella</i> <i>Ad.</i>
107	9	183	<i>tenera</i> <i>Ad.</i>
107	9	183	<i>longispira</i> <i>Ad.</i>
107	9	183	<i>proxima</i> <i>Ad.</i>
107	9	183	<i>Blandiana</i> <i>Ad.</i>
107	9	183	<i>propinqua</i> <i>Ad.</i>
108	9	184	<i>osculans</i> <i>Ad.</i>
108	9	184	<i>perplexa</i> <i>Ad.</i>
108	9	184	<i>Gossei</i> <i>Pfr.</i>
108	9	184	<i>costulata</i> <i>Ad.</i>
108	9	184	<i>gracilior</i> <i>Ad.</i>
108	9	184	<i>costulosa</i> <i>Ad.</i>
108	9	184	<i>curvilabris</i> <i>Pfr.</i>
108	9	184	<i>vicina</i> <i>Ad.</i>
108	9	184	<i>pellucens</i> <i>Ad.</i>
108	9	184	<i>levis</i> <i>Ad.</i>
108	9	184	<i>micans</i> <i>Ad.</i>
108	9	184	<i>iota</i> <i>Ad.</i>
108	9	184	<i>octona</i> <i>Chemn.</i>
108	9	184	<i>striosa</i> <i>Ad.</i>
108	9	184	Spiraxis costulosa <i>Ad.</i>
108	9	184	<i>inuitata</i> (<i>Achatina</i>) <i>Ad.</i>
108	9	184	<i>mirabilis</i> (<i>Bulimus</i>) <i>Ad.</i>
108	9	184	<i>anomala</i> (<i>Achatina</i>) <i>Ad.</i>
108	9	184	<i>brevis</i> <i>Ad.</i>
108	9	184	<i>aberrans</i> (<i>Achatina</i>) <i>Pfr.</i>
108	9	184	var. <i>unicolor</i> <i>Ad.</i>
108	9	184	Bulimus minimus <i>Ad.</i>
108	9	184	<i>striatellus</i> <i>Ad.</i>
108	9	184	<i>terebella</i> <i>Ad.</i>
108	9	184	<i>pauperculus</i> <i>Ad.</i>
108	9	184	<i>hortensis</i> <i>Ad.</i>
108	9	184	<i>octonoides</i> <i>Ad.</i>
108	9	184	<i>pallidus</i> <i>Ad.</i>

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108	9	184	<i>Bulimus monodon</i> Ad.
108	9	184	<i>nitidiusculus</i> Ad.
108	9	184	<i>subula</i> Pfr.
			<i>B. procerus</i> Ad.
108	9	184	<i>læviusculus</i> Ad.
108	9	184	<i>rufescens</i> Gray.
108	9	184	<i>erubescens</i> Pfr.
108	9	184	<i>immaculatus</i> Ad.
108	9	184	<i>zebra</i> Müll.
			<i>B. undatus</i> Brug.
108	9	184	<i>macrospira</i> Ad.
108	9	184	<i>Pupa exilis</i> Ad.
108	9	184	<i>fallax</i> ? Say.
108	9	184	<i>lata</i> Ad.
108	9	184	<i>contracta</i> ? Say.
108	9	184	<i>tenuidens</i> Ad.
108	9	184	<i>hexodon</i> Ad.
108	9	184	<i>servilis</i> Gould.
108	9	184	<i>Jamaicensis</i> Ad.
108	9	184	<i>striatella</i> ? Pfr.
108	9	184	<i>Succinea angustior</i> Ad.
108	9	184	<i>Sagra</i> ? D'Orb.
108	9	184	<i>latior</i> Ad.
108	9	184	<i>contorta</i> Ad.
108	9	184	<i>Helix Martiniana</i> Pfr.
108	9	184	<i>peracutissima</i> Ad.
108	9	184	<i>soror</i> Fer.
108	9	184	<i>cara</i> Ad.
108	9	184	var. <i>media</i> Ad.
108	9	184	<i>amabilis</i> Ad.
109	9	185	<i>Chittyana</i> Ad.
109	9	185	<i>patina</i> Ad.
109	9	185	var. <i>nobilis</i> Ad.
109	9	185	<i>ingens</i> Ad.
109	9	185	var. <i>imperfurata</i> Ad.
109	9	185	<i>indigna</i> Ad.
109	9	185	<i>acuta</i> Lam.
109	9	185	var. <i>acutissima</i> Lam.
109	9	185	<i>fuscolabris</i> Ad.
109	9	185	<i>lucerna</i> Müll.
109	9	185	<i>fortis</i> Ad.
109	9	185	<i>Okeniana</i> Pfr.

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Page.	No.	Page.	
109	9	185	Helix Swainsoniana <i>Ad.</i>
109	9	185	<i>tridentina</i> <i>Fer.</i>
109	9	185	Bronni <i>Pfr.</i>
109	9	185	<i>valida</i> <i>Ad.</i>
109	9	185	<i>consanguinea</i> <i>Ad.</i>
109	9	185	<i>var. imperforata</i> <i>Ad.</i>
109	9	185	<i>carinata</i> <i>Ad.</i>
109	9	185	<i>picturata</i> <i>Ad.</i>
109	9	185	<i>invalida</i> <i>Ad.</i>
109	9	185	<i>sinuata</i> <i>Müll.</i>
109	9	185	<i>var. propenuda</i> <i>Ad.</i>
109	9	185	<i>candescens</i> <i>Ad.</i>
109	9	185	<i>strangulata</i> <i>Ad.</i>
109	9	185	<i>anomala</i> <i>Pfr.</i>
109	9	185	<i>var. pallescens</i> <i>Ad.</i>
109	9	185	<i>convexa</i> <i>Ad.</i>
109	9	185	Bainbridgei <i>Pfr.</i>
109	9	185	<i>var. pretiosa</i> <i>Ad.</i>
109	9	185	Spengleriana <i>Pfr.</i>
109	9	185	Redfieldiana <i>Ad.</i>
109	9	185	<i>aspera</i> <i>Fer.</i>
109	9	185	Jamaicensis <i>Chemn.</i>
			<i>H. pulla</i> <i>Gmel.</i>
109	9	185	<i>angustata</i> <i>Fer.</i>
109	9	185	Cubensis (<i>var. S</i>) <i>Pfr.</i>
109	9	185	<i>tunicata</i> <i>Ad.</i>
109	9	185	Buddiana <i>Ad.</i>
109	9	185	MacMurrayi <i>Ad.</i>
109	9	185	<i>munda</i> <i>Ad.</i>
109	9	185	<i>columellata</i> <i>Ad.</i>
109	9	185	<i>tenerrima</i> <i>Ad.</i>
109	9	185	<i>graminicola</i> <i>Ad.</i>
109	9	185	<i>nemoraloides</i> <i>Ad.</i>
109	9	185	<i>pulchrior</i> <i>Ad.</i>
109	9	185	Gossei <i>Pfr.</i>
109	9	185	Blandiana <i>Ad.</i>
109	9	185	<i>subconica</i> <i>Ad.</i>
109	9	185	<i>fuscocincta</i> <i>Ad.</i>
109	9	185	<i>virginea</i> <i>Ad.</i>
109	9	185	Jacobensis <i>Ad.</i>
109	9	185	<i>fuscula</i> <i>Ad.</i>
109	9	185	<i>immunda</i> <i>Ad.</i>

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109	9	185	Helix rufula Pfr.
109	9	185	<i>ptychodes</i> Pfr.
109	9	185	<i>alveus</i> Ad.
109	9	185	<i>perdepressa</i> Ad.
109	9	185	<i>brevior</i> Ad.
			<i>H. depressa</i> Ad.
109	9	185	<i>sincera</i> Ad.
109	9	185	<i>diminuta</i> Ad.
109	9	185	<i>apex</i> Ad.
109	9	185	<i>inconspicua</i> Ad.
109	9	185	<i>peraffinis</i> Ad.
109	9	185	<i>Boothiana</i> Pfr.
			<i>H. pellucida</i> Ad.
109	9	185	<i>spretta</i> Ad.
109	9	185	var. <i>errans</i> .
109	9	185	<i>turbiniiformis</i> Pfr.
			<i>H. subpyramidalis</i> Ad.
109	9	185	<i>Anthoniana</i> Ad.
110	9	186	<i>angustispira</i> Ad.
110	9	186	<i>brevis</i> Ad.
110	9	186	<i>Hollandi</i> Ad.
110	9	186	<i>similis</i> Ad.
110	9	186	<i>arboreoides</i> Ad.
			<i>H. Haldemaniana</i> Pfr.
110	9	186	<i>ambigua</i> Ad.
110	9	186	<i>osculans</i> Ad.
110	9	186	var. <i>delaminata</i> Ad.
110	9	186	<i>lamellifera</i> Ad.
110	9	186	<i>pila</i> Ad.
110	9	186	<i>Foremaniana</i> Ad.
110	9	186	<i>Cookiana</i> Gmel.
110	9	186	<i>epistylioides</i> Fer.
110	9	186	<i>alligans</i> Ad.
110	9	186	<i>epistylum</i> Müll.
110	9	186	var. <i>minor</i> Ad.
110	9	186	<i>delaminata</i> Ad.
110	9	186	<i>torrefacta</i> Ad.
110	9	186	<i>connectens</i> Ad.
110	9	186	<i>epistyliulum</i> Ad.
110	9	186	<i>simulans</i> Ad.
110	9	186	<i>dioscoricola</i> Ad.
110	9	186	<i>paludosa</i> Pfr.

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Page.	No.	Page.	
110	9	186	Proserpina discoidea <i>Ad.</i>
110	9	186	<i>opalina</i> (<i>Helix</i>) <i>Ad.</i>
110	9	186	<i>nitida</i> <i>Sowb.</i>
110	9	186	var. <i>planulata</i> <i>Ad.</i>
110	9	186	<i>pulchra</i> <i>Ad.</i>
110	9	186	<i>bidentata</i> <i>Ad.</i>
110	9	186	<i>pisum</i> <i>Ad.</i>
110	3	186	Melampus coniformis <i>Brug.</i>
110	9	186	<i>flavus</i> <i>Gmel.</i>
			<i>Auricula monile</i> <i>Lam.</i>
110	9	186	<i>pusillus</i> <i>Gmel.</i>
			<i>Auricula nitens</i> <i>Lam.</i>
110	9	186	<i>coronatus</i> <i>Ad.</i>
110	9	186	<i>cingulatus</i> <i>Pfr.</i>
110	9	186	Pedipes quadridens <i>Pfr.</i>
110	9	186	<i>ovalis</i> <i>Ad.</i>
111	9	187	Adams. —Catalogue of the Fresh Water Shells which inhabit Jamaica. (From same.)
111	9	187	Neritina punctulata <i>Lam.</i>
111	9	187	<i>Jamaicensis</i> <i>Ad.</i>
111	9	187	<i>tenebricosa</i> <i>Ad.</i>
111	9	187	Melanopsis lineolata <i>Gray.</i>
111	9	187	Melania spinifera <i>Ad.</i>
111	9	187	Valvata pygmæa <i>Ad.</i>
111	9	187	<i>inconspicua</i> <i>Ad.</i>
111	9	187	Paludina rivularis <i>Ad.</i>
111	9	187	<i>Jamaicensis</i> <i>Ad.</i>
111	9	187	Ampullaria fasciata ? <i>Lam.</i>
111	9	187	Planorbis MacNabianus <i>Ad.</i>
111	9	187	<i>Redfieldi</i> <i>Ad.</i>
111	9	187	<i>Haldemani</i> <i>Ad.</i>
111	9	187	<i>dentiferus</i> <i>Ad.</i>
111	9	187	var. <i>edentatus</i> <i>Ad.</i>
111	9	187	<i>pallidus</i> <i>Ad.</i>
111	9	187	<i>decipiens</i> <i>Ad.</i>
111	9	187	<i>affinis</i> <i>Ad.</i>
111	9	187	<i>humilis</i> <i>Ad.</i>
111	9	187	Ancylus obscurus ? <i>Hald.</i>
111	9	187	<i>obliquus</i> <i>Ad.</i>
111	9	187	Physa Sowerbyana ? <i>D'Orb.</i>
111	9	187	<i>Jamaicensis</i> <i>Ad.</i>

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111	9	187	<i>Limnæa umbilicata</i> Ad.
111	9	187	<i>Cyclas pygmæa</i> Ad.
111	9	187	<i>Veatleyi</i> Ad.

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224 **Redfield.**—Descriptions of new species of *Marginella* and *Cypræa*: by JOHN H. REDFIELD.

224	<i>Marginella vexillum</i> Redf.	Cape Palmas.
225	<i>amabilis</i> Redf.	Yucatan.
	<i>M. carnea</i> Sowb. not Storer.	
226	<i>antiqua</i> Redf.	Va. fossil.
226	<i>Gabiensis</i> Redf. = <i>M. amygdala</i> Kien.	
226	<i>vermiculata</i> Redf. = <i>M. quinqueplicata</i> Lam.	
227	<i>Hainesii</i> Pet. = <i>M. quinqueplicata</i> Lam.	
227	<i>prudica</i> Gaskoin = <i>M. chrysomelina</i> .	
227	<i>Delessertiana</i> Recl. = <i>albolineata</i> D'Orb.?	
227	<i>Cypræa reticulata</i> .	
227	<i>histrio</i> .	

229 **Adams.**—Catalogue of Shells collected at Panama, with notes, &c.: by C. B. ADAMS.

[Also published separately, 1852. I have given the pages of the Annals as well as of the separate work.—W. G. B.]

Family *Cypræidæ*.

ANN.	P. S.		ANN.	P. S.	
Pa.	Pa.		Pa.	Pa.	
253	29	<i>Ovula avena</i> Sowb.	261	37	<i>Cypræa radians</i> Lam.
254	30	<i>emarginata</i> Sowb.			<i>Trivia radians</i> Gray.
255	31	<i>neglecta</i> Ad.			<i>C. oniscus</i> Wood.
255	31	<i>variabilis</i> Ad.	262	38	<i>rubescens</i> Gray.
256	32	—	262	38	<i>sanguinea</i> Gray
256	32	<i>Cypræa arabicula</i> Lam.			(<i>Trivia</i>).
257	33	<i>cervinetta</i> Kien.	263	39	<i>Erato scabriuscula</i> Gr.
		<i>C. exanthema</i> (var.)			<i>Marginella cypraola</i>
		Gray.			Sowb.
		<i>cervus</i> (var.) Rve.			<i>Marginella granum</i> Kien.
259	35	<i>punctulata</i> Gray.	264	40	<i>Marginella minor</i> Ad.
259	35	<i>pustulata</i> Lam.	264	40	<i>sapotilla</i> Hinds.
		<i>Trivia pustulata</i> Gray.			

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Family **Mitridæ.**

ANN.	P. S.		ANN.	P. S.	
Pa.	Pa.		Pa.	Pa.	
266	42	Mitra funiculata Rve.	267	43	Mitra nucleola Lam.
266	42	lens Wood (<i>Voluta</i>).	268	44	solitaria Ad.
		<i>Tiara foraminata</i> Sw.	268	44	tristis Brod.
		<i>Mitra Dupontii</i> Kien.			

Family **Purpuridæ.**

269	45	Terebra elata Hinds.	283	59	Nassa canescens Ad.
269	45	larvæformis Hinds.	283	59	collaria Ad.
270	46	robusta Hinds.	284	60	corpulenta Ad.
270	46	specillata Hinds.	285	61	gemma Ad.
271	47	tuberculosa Hinds.	285	61	glauca Ad.
271	48	varicosa Hinds.	286	62	luteostoma Ad.
271	48	——?			<i>N. xanthostoma</i> Gray.
271	48	——?			<i>Buccinum luteostoma</i>
271	48	——?			Br. & Sowb.
271	48	——?	287	63	nodifera Powis.
271	48	——?	287	63	pagodus (<i>Triton</i>) Rve.
272	48	Oliva angulata Lam.			<i>Buccinum decussatum</i>
		<i>Voluta oliva</i> (var. ♂)			Kien.
		Gmel.	288	64	Panamensis Ad.
		<i>incrassata</i> Dillw.	288	64	proxima Ad.
273	49	araneosa Lam.	289	65	scabriuscula Powis?
		<i>O. reticularis</i> Rve.	289	65	striata Ad.
274	50	inconspicua Ad.	290	66	versicolor Ad.
275	51	pellucida Rve.	291	67	Wilsoni Ad.
275	51	porphyria Linn. (<i>Vol.</i>)	291	67	Buccinum crassum Hld.
		<i>O. Panamensis</i> Montf.			<i>Phos crassum</i> Hinds.
277	53	semistriata Gray.	292	68	distortum Bligh.
278	54	testacea Lam.			<i>Pollia distorta</i> Gray.
279	55	undatella Lam.			<i>Columbellatriumphalis</i>
		<i>O. tenebrosa</i> Wood.	293	68	insigne Rve. [Ducl.
280	56	venulata Lam. [Rve.			<i>B. mutabile</i> Val.
		<i>O. reticularis</i> (var.)	293	69	lugubre Ad.
		<i>Voluta ispidula</i>	294	70	pagodus Rve.
		(♂ var.) Born.	294	70	pristis Desh.
281	57	volutella Lam.			<i>B. serratum</i> Kien.
		<i>O. cærulea</i> Wood.	295	71	ringens Rve.
282	58	Planaxis planicostata	296	72	sanguinolentum Mke.
		Sowb.			<i>B. hæmastoma</i> Rve.
		<i>P. canaliculata</i> Duval			<i>Pollia hæmastoma</i> Gr.
		<i>Buccinum planaxis</i>			<i>Purpura sanguinolenta</i>
		Wood.			Ducl.

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ANN.	P. S.		ANN.	P. S.	
Pa.	Pa.		Pa.	Pa.	
		<i>B. Janelii</i> Val.			
296	72	Buccinum Stimp-	306	82	Columbella atramen-
		sonianum Ad.			taria Sowb.
297	73	Dolium ringens Rve.	306	82	bicanalifera Sowb.
		<i>D. dentatum</i> Barnes.	307	83	Boivini Kien.
		<i>personatum</i> Mke.	307	83	conspicua Ad.
		<i>Cassirangens</i> Swains.	308	84	costellata Br. & Sowb.
		<i>Buccinum ringens</i> Wd.	309	85	diminuta Ad.
		<i>Malea latilabris</i> Val.	309	85	dorsata Sowb.
		<i>crassilabris</i> Val.	310	86	fluctuata Sowb.
		<i>Dolium latilabre</i> Kien.			<i>C. suturalis</i> Griff.
		<i>plicosum</i> Mke.	311	87	fulva Sowb.
		<i>crassilabre</i> Mke.	311	87	fuscata Sowb.
298	74	Monoceros breviden-			<i>C. meleagris</i> Kien.
		tatum Sowb.	312	88	gibberula Sowb.
		<i>Buccinum brevidenta-</i>	313	89	gracilis Ad.
		<i>tum</i> Wood.	313	89	guttata Sowb.
		<i>Purpura cornigera</i> Bl.			<i>C. cribraria</i> Sowb.
		<i>ocellata</i> Kien.	315	91	hæmastoma Sowb.
		<i>maculata</i> Gmel.	315	91	harpiformis Sowb.
299	75	cingulatum Lam.			<i>C. citharula</i> Ducl.
		<i>Buccinum cingulatum</i>	316	92	labiosa Sowb.
		Wood.	317	93	lyrata Sowb.
		<i>pseudodon</i> Burr.	317	93	major Sowb.
		<i>Turbinella cingulata</i>			<i>C. gibbosa</i> Val.
		Kien.			<i>strombiformis</i> Kien.
300	76	Purpura Carolensis	318	94	modesta Gould.
300	76	foveolata Ad. [Rve.			<i>Buccinum modestum</i>
301	77	kiosquiformis Ducl.	318	94	mæsta Ad. [Powis.
302	78	—— (sp. ined.)	319	95	nigricans Sowb.
302	78	melo Desh.	320	96	parva Sowb.
		<i>P. crassa</i> Blainv.	320	96	pulchrior Ad.
		<i>melones</i> Ducl.	321	97	pygmæa Sowb.
303	79	osculans Ad.	321	97	rugosa Sowb.
303	79	tecta Rve.			<i>C. Sowerbyi</i> Ducl.
		<i>P. angulifera</i> Ducl.			<i>bicolor</i> Kien.
		<i>callosa</i> Sowb.	322	98	strombiformis Lam.
		<i>Buccinum tectum</i> Wd.			<i>Buccinum strombi-</i>
		<i>Cuma sulcata</i> Swains.			<i>forme</i> Wood.
		<i>Turbinella callosa</i>	323	99	tesselata Ad.
		<i>tectum</i> Rve. [Less.	323	99	turrita Sowb.
304	80	undata Lam.	324	100	varia Sowb.
		<i>P. hæmastoma</i> Mke.	325	101	—— (sp. ined.) [Rve.
			325	101	Ricinula carbonaria ?

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Pa.	Pa.		Pa.	Pa.	
325	101	Ricinula jugosa <i>Ad.</i>	327	103	Cassia coarctata <i>Sowb.</i>
326	102	Reeviana <i>Ad.</i> [Rve.]			<i>Buccinum coarctatum</i>
		<i>Buccinum pulchrum</i>			Wood. [Rve.]
326	102	Cassis abbreviata <i>Bl.</i>	328	104	Oniscia tuberculosa
		<i>C. lactea</i> <i>Kien.</i>			

Family **Strombidae.**

328	104	Conus brunneus <i>Wood.</i>	332	108	Conus purpurascens
329	105	gladiator <i>Brod.</i>			<i>Brod.</i>
329	105	mahogani <i>Rve.</i>	333	109	regalitis <i>Sowb.</i>
330	106	nux <i>Brod.</i>	334	110	regularis <i>Sowb.</i>
330	106	princeps <i>Linn.</i>	334	110	vittatus <i>Lam.</i>
		<i>C. regius</i> <i>Chemn.</i>	335	111	Strombus galea <i>Wood.</i>
		(<i>Conch. Cab. La Robe</i>			<i>S. galeatus</i> <i>Gray.</i>
		<i>Persienne Favanne.</i>)	336	112	gracilior <i>Sowb.</i>
		<i>C. lineolatus</i> <i>Val.</i>	337	113	granulatus <i>Swains.</i>
			338	114	Peruvianus <i>Swains.</i>

Family **Muricidae.**

339	115	Triton Chemnitzii <i>Rve.</i>	346	122	Murex radix <i>Schröt.</i>
		<i>T. perforatus</i> <i>Cour.</i>			<i>M. melanomathos</i> <i>Dill.</i>
		<i>Cassidaria setosa</i> <i>Hds.</i>	347	123	rectirostris <i>Sowb.</i>
		<i>Triton nodosum</i> <i>Mke.</i>	348	124	recurvirostris <i>Brod.</i>
		<i>Argo-buccinum nodosum</i> <i>Chemn.</i>	348	124	regius <i>Swains.</i>
		<i>Murex argus</i> (var. β , pars) <i>Gmel.</i>	349	125	salebrosus <i>King.</i>
		<i>Fusus Wiegmanni</i> <i>Ant.</i>			<i>M. vitulinus</i> <i>Gray.</i>
340	116	constrictus <i>Brod.</i>	350	126	vibex <i>Brod.</i>
		<i>T. decussatum</i> <i>Val.</i>	351	127	vittatus <i>Brod.</i>
340	116	fusoides <i>Ad.</i>	351	127	Pyrula patula <i>Brod.</i>
340	116	gibbosus <i>Brod.</i>			<i>Cyrtulus patula</i> <i>Hinds.</i>
341	117	lignarius <i>Brod.</i>	352	128	Ficula ventricosa
342	118	vestitus <i>Hinds.</i>			<i>Chemu.</i>
342	118	Ranella cœlata <i>Brod.</i>			<i>F. decussata</i> <i>Rve.</i>
		<i>R. semigranosa</i> <i>Kien.</i>			<i>Pyrula ventricosa</i> <i>Sb.</i>
343	119	nana <i>Brod.</i>			<i>Bulla decussata</i> <i>Wood.</i>
344	120	nitida <i>Brod.</i>	353	129	Fusus bellus <i>Ad.</i>
344	120	plicata <i>Rve.</i>	353	129	Fasciolaria granosa <i>Br.</i>
345	121	Murex dubius <i>Sowb.</i>	354	130	Turbinella cæstus <i>Br.</i>
		<i>M. aculeatus</i> <i>Wood.</i>	355	131	castanea <i>Gray.</i>
345	121	erosus <i>Brod.</i>			<i>T. acuminata</i> <i>Rve.</i>
			355	131	cerata <i>Rve.</i>

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		<i>Murex ceratus</i> Wood.
356	132	Turbinella rudis Rve.
356	132	spadicea Rve.
356	132	Cancellaria affinis Ad.
357	133	clavatula Sowb.
358	134	decussata Sowb.
358	134	goniostoma Sowb.
359	135	mitriformis Sowb.
		<i>C. uniplicata</i> Sowb.
359	135	pulchra Sowb.
360	136	pygmæa Ad.
361	137	solida Sowb.
361	137	tesselata Sowb.
362	138	Pleurotoma aterrima
362	138	atrior Ad. [Sowb.
363	139	bicanalifera Sowb.
363	139	collaris Sowb.
364	140	concinna Ad.
364	140	corrugata Sowb.
		<i>P. turricula</i> Sowb.
		<i>Sowerbyi</i> Rve.
365	141	discors Sowb.
365	141	duplicata Sowb.
366	142	excentrica? Sowb.
366	142	exigua Ad.
367	143	gemmulosa Ad.
367	143	grandimaculata Ad.
368	144	incrassata Sowb.
		<i>P. Bottæ</i> Kien.
368	144	nigerrima Sowb.
		<i>P. cornuta</i> Sowb.
369	145	obeliscus Rve.
369	145	olivaces Sowb.
370	146	pallida Sowb.
370	146	rigida Hinds.

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		<i>Clavatula rigida</i>
		[Hinds.
370	146	Pleurotoma rudis Sby.
371	147	rustica Sowb.
		<i>P. thiarella</i> Kien.
371	147	striosa Ad.
372	148	zonulata Rve.
		<i>P. cincta</i> Sowb.
372	148	—— (a).
372	148	—— (b).
372	148	Mangelia —— (c).
373	149	—— (d).
373	149	—— (e).
373	149	—— (f).
373	149	neglecta Ad.
373	149	sulcosa? Sowb.
		<i>Columbella sulcosa</i> Sh.
374	150	Cerithium adustum Kn.
374	150	assimilatum Ad.
375	151	bimarginatum Ad.
376	152	famelicum Ad.
376	152	gemmatum.
377	153	interruptum.
377	153	—— (sp. ind.)
378	154	irroratum Gould.
378	154	neglectum Ad.
379	155	Pacificum Sowb.
		<i>C. Humboldti</i> Val.
379	155	pauperculum Ad.
380	156	pulchrum Ad.
380	156	Reevianum Ad.
381	157	validum Ad. [Ad.
382	158	Triphoris alternatus
383	159	inconspicuus Ad.
383	159	infrequens Ad.

Family **Littorinidæ.**

384	160	Turritella Banksii Rve.	386	162	Cœcum monstrosum
385	161	Cœcum diminutum Ad.	387	163	parvum Ad. [Ad.
385	161	eburneum Ad.	387	163	pygmæum Ad.
385	161	firmatum Ad.	388	164	Chemnitzia aculeus
386	162	læve Ad.	388	164	acuminata Ad. [Ad.
386	162	laqueatum Ad.	389	165	affinis Ad.

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Pa.	Pa.	Pa.	Pa.
389	165	Chemnitzia clathra-	397 173 Littorina? foveata <i>Ad.</i>
		tula <i>Ad.</i>	398 174 ? megasoma <i>Ad.</i>
390	166	communis <i>Ad.</i>	398 174 ? parvula <i>Phil.</i>
391	167	gracilior <i>Ad.</i>	399 175 pulchra <i>Sowb.</i>
391	167	major <i>Ad.</i>	<i>Turbo pulcher</i> Swains.
391	167	marginata <i>Ad.</i>	400 176 puncticulata <i>Phil.</i>
392	168	Panamensis <i>Ad.</i>	400 176 varia <i>Sowb.</i>
392	168	similis <i>Ad.</i>	401 177 Rissoa clandestina <i>Ad.</i>
393	169	striosa <i>Ad.</i>	401 177 firmata <i>Ad.</i>
393	169	turrita <i>Ad.</i>	402 178 fortis <i>Ad.</i>
394	170	Littorina? angiotoma	402 178 ? inconspicua <i>Ad.</i>
394	170	aspera <i>Phil.</i> [<i>Ad.</i>	403 179 infrequens <i>Ad.</i>
395	171	atrata <i>Ad.</i>	403 179 Janus <i>Ad.</i>
396	172	conspersa <i>Ad.</i>	404 180 notabilis <i>Ad.</i>
396	172	? excavata <i>Ad.</i>	404 180 scalariformis <i>Ad.</i>
397	173	fasciata <i>Gray.</i>	405 181 ——— (sp. ind.)

Family **Trochidæ.**

405	181	Cingula? inconspicua	414 190 Trochus catenulatus
405	181	paupercula <i>Ad.</i> [<i>Ad.</i>	<i>Phil.</i>
406	182	? terebellum <i>Ad.</i>	415 191 coronulatus <i>Ad.</i>
406	182	? turrita <i>Ad.</i>	415 191 leanus <i>Ad.</i>
407	183	Litiopa? saxicola <i>Ad.</i>	416 192 lima <i>Phil.</i>
407	183	Adeorbis? abjecta <i>Ad.</i>	416 192 lividus <i>Phil.</i>
408	184	Vitrinella concinna <i>Ad.</i>	417 193 Panamensis <i>Phil.</i>
408	184	exigua <i>Ad.</i>	417 193 pellis-serpentis <i>Wd.</i>
409	185	Janus <i>Ad.</i>	<i>Turbo pellis-serpentis</i>
410	186	minuta <i>Ad.</i>	<i>Val.</i>
410	186	modesta <i>Ad.</i>	418 194 reticulatus <i>Wood.</i>
410	186	Panamensis <i>Ad.</i>	419 195 Turbo Buschii <i>Phil.</i>
411	187	parva <i>Ad.</i>	<i>Trochus Buschii</i> <i>Phil.</i>
411	187	perparva <i>Ad.</i>	<i>inermis</i> Kien.
412	188	regularis <i>Ad.</i>	419 195 ? phasianella <i>Ad.</i>
412	188	seminuda <i>Ad.</i>	420 196 rutilus <i>Ad.</i>
413	189	tricarinata <i>Ad.</i>	420 196 saxosus <i>Wood.</i>
413	189	valvatoides <i>Ad.</i>	421 197 Scalaria hexagona
414	190	Solarium (sp. ind. a.)	422 198 obtusa <i>Sowb.</i> [<i>Sowb.</i>
414	190	—— (sp. ind. b.)	422 198 ——— (sp. ind. a.)
414	190	—— (sp. ind. c.)	422 198 ——— (sp. ind. b.)
			422 198 ——— (sp. ind. c.)

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Family **Eulimidae**.

ANN. P. S.			ANN. P. S.		
Pa.	Pa.		Pa.	Pa.	
422	198	Eulima <i>iota</i> <i>Ad.</i>	423	199	Eulima <i>solitaria</i> <i>Ad.</i>
423	199	<i>recta</i> <i>Ad.</i>			

Family **Tornatellidae**.

424	200	Pyramidella (sp. ind.)	424	200	Pyramidella <i>conica</i> <i>Ad.</i>
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Family **Neritidae**.

425	201	Natica <i>Chemnitzii</i> <i>Ad.</i>	428	204	Nerita <i>scabricosta</i>
425	201	<i>lurida</i> ? <i>Phil.</i>			<i>Lam.</i>
425	201	<i>otis</i> <i>Br. & Sowb.</i>			<i>N. ornata</i> <i>Sowb.</i>
426	202	Salangonensis <i>Rec.?</i>			<i>Deshayesii</i> <i>Recl.</i>
426	202	Souleyetiana <i>Recl.?</i>			<i>multiugis</i> <i>Mke.</i>
427	203	<i>virginea</i> <i>Recl.?</i>	429	205	— (sp. ind. a.)
427	203	— (sp. ind. a.)	430	206	Neritina <i>Guayaquilensis</i> <i>Sowb.</i>
427	203	— (sp. ind. b.)			
428	204	— (sp. ind. c.)	430	206	<i>picta</i> <i>Sowb.</i>

Family **Auriculidae**.

431	207	Pedipes <i>angulata</i> <i>Ad.</i>	434	210	Pedipes <i>stagnalis</i> <i>D'Or.</i>
432	208	<i>acuta</i> <i>D'Orb.</i>			<i>A. papillifera</i> <i>Kien.</i>
		<i>Marinula</i> <i>Recluziana</i>	435	211	Tabogensis <i>Ad.</i>
432	208	<i>concinna</i> <i>Ad.</i> [Cum.	436	212	<i>trilineata</i> <i>Ad.</i>
433	209	<i>infrequens</i> <i>Ad.</i>	436	212	— (sp. ind.)
433	209	Panamensis <i>Ad.</i>			

Family **Cyclostomidae**.

437	213	Truncatella <i>Bairdiana</i>	437	213	Truncatella ? <i>dubiosa</i>
		<i>Ad.</i>			<i>Ad.</i>

Family **Bullidae**.

438	214	Bulla (Tornatina) <i>in-</i>	439	215	Bulla <i>punctulata</i> <i>Sowb.</i>
		<i>frequens</i> <i>Ad.</i>			<i>B. punctata</i> <i>Ad.</i>
439	215	(<i>Cylichna</i>) <i>luticola</i>	439	215	— (sp. ind.)
		<i>Ad.</i>			

Family **Vermetidae**.

440	216	Vermetus <i>glomera-</i>			<i>V. centriquadrus</i> <i>Val.?</i>
		<i>tus</i> ? <i>Rousseau.</i>	440	216	Vermetus <i>Panamensis</i>
		<i>Serpula</i> <i>glomerata</i>			<i>Rousseau.</i>
		(var. b., alt. excl.)			
		<i>Lam.</i>			

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Family **Haliotidae.**

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Pa.	Pa.		Pa. Pa.
440	216	Stomatella inflata	<i>Ad.</i>

Family **Calyptræidae.**

441	217	Hipponix (sp. ind.)	449	225	Crepidula cerithicola
441	217	barbata? <i>Sowb.</i>			<i>Ad.</i>
442	218	Panamensis <i>Ad.</i>	450	226	(<i>Crepidatella</i>) echinus
		<i>H. mitrula</i> <i>Sowb.</i>	450	226	excavata <i>Brod.</i> [<i>Brod.</i>
442	218	radiata <i>Sowb.</i>			<i>Calyptræa</i> (<i>Crepidula</i>) excavata <i>Brod.</i>
443	219	Calyptræa aberrans <i>Ad.</i>	451	227	hepatica? <i>Desh.</i>
443	219	(<i>Syphopatella</i>) as-	452	228	incurva <i>Brod.</i>
		persa <i>Ad.</i>			<i>Calyptræa</i> (<i>Crepidula</i>) incurva <i>Brod.</i>
444	220	cepacea <i>Brod.</i>	453	229	Lessonii <i>Brod.</i>
444	220	(<i>Syphopatella</i>) conica			<i>Calyptræa</i> (<i>Crepidula</i>) Lessonii <i>Brod.</i>
445	221	dentata <i>Mke.</i> [<i>Brod.</i>	453	229	squama <i>Brod.</i>
		<i>C. rugosa</i> <i>Rve.</i>			<i>Calyptræa</i> (<i>Crepidula</i>) squama <i>Brod.</i>
445	221	(<i>Calypeopsis</i>) hispida	453	229	unguiformis <i>Lam.</i>
		<i>Brod.</i>			<i>C. italica</i> <i>Defr.</i>
446	222	(<i>Calypeopsis</i>) imbri-			<i>plana</i> <i>Say.</i>
		cata <i>Brod.</i>			<i>calceolina</i> <i>Desh.</i>
447	223	(<i>Calypeopsis</i>) macu-	454	230	dilatata <i>D'Orb.</i>
		lata <i>Brod.</i>			<i>Patella crepidula</i> <i>Lin.</i>
447	223	planulata <i>Ad.</i> [<i>Brod.</i>	458	234	nivea <i>Ad.</i>
447	223	(<i>Calypeopsis</i>) radiata	458	234	osculans <i>Ad.</i>
448	224	(<i>Syphopatella</i>) re-	459	235	rostrata <i>Ad.</i>
		gularis <i>Ad.</i>			
449	225	umbrella <i>Desh.</i>			
		<i>C. rudis</i> <i>Brod.</i>			
449	225	unguis?			

Family **Fissurellidae.**

459	235	Fissurella æqualis	463	239	Siphonaria costata <i>Sb.</i>
460	236	alta <i>Ad.</i> [<i>Sowb.</i>	463	239	gigas <i>Sowb.</i>
460	236	macrotrema <i>Sowb.</i>	464	240	maura <i>Sowb.</i>
461	237	microtrema <i>Sowb.</i>	464	240	pica? <i>Sowb.</i>
461	237	mus <i>Rve.</i>	465	241	Lottia patina? <i>Rathke.</i>
461	237	nigropunctata <i>Sowb.</i>			<i>Acmæa patina</i> <i>Rath.</i>
462	238	ostrina <i>Rve.</i>	465	241	— (sp. ind. a.)
462	238	virescens <i>Sowb.</i>	465	241	— (sp. ind. b.)
463	239	Siphonaria character-	465	241	— (sp. ind. c.)
		istica <i>Rve.</i>			

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Family **Patellidæ.**

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Pa.	Pa.		Pa.	Pa.	
465	241	<i>Patella</i> ? (sp. ind. a.)	466	242	<i>Chiton luridus</i> ? Sowb.
466	242	<i>Chiton clathratus</i> Ree.	467	243	<i>pulchellus</i> Gray.
466	242	<i>dispar</i> Sowb.	467	243	<i>Stokesii</i> Brod.

Family **Ostræidæ.**

468	244	<i>Anomia lampe</i> Gray.	469	245	<i>Ostrea</i> — (sp. ind. b.)
469	245	<i>tenuis</i> Ad.	470	246	— (sp. ind. c.)
469	245	— (sp. ind. a.)	470	246	— (sp. ind. d.)
469	245	<i>Ostrea</i> — (sp. ind. a.)	470	246	— (sp. ind. e.)

Family **Pectenidæ.**

471	247	<i>Spondylus Lamarckii</i> <i>Chenu.</i>			<i>Pecten ventricosus</i> in errata.
471	247	— (sp. ind. a.)	472	248	<i>Tumbezensis</i> D'Orb.
471	247	<i>Pecten inca</i> D'Orb.			<i>P. aspersus</i> Sowb.
		<i>P. tumidus</i> Sowb.	472	248	<i>Lima angulata</i> Sowb.
		<i>ventricosus</i> Sowb.	473	249	<i>Pacifica</i> D'Orb.
					<i>L. arcuata</i> Sowb.

Family **Aviculidæ.**

473	249	<i>Avicula margaritifera</i> ?	474	250	<i>Perna</i> — (sp. ind. a.)
474	250	<i>sterna</i> Gould.	474	250	— (sp. ind. b.)

Family **Mytilidæ.**

474	250	<i>Pinna maura</i> Sowb.	476	252	<i>Modiola</i> — (sp. ind. a.)
475	251	<i>tuberculosa</i> Sowb.			
475	251	<i>Mytilus</i> — (sp. ind. a.)	476	252	— (sp. ind. b.)
475	251	<i>Lithodomus</i> — (sp. ind. a.)	476	252	— (sp. ind. c.)
			476	252	— (sp. ind. d.)
475	251	<i>Modiolasemifusca</i> ? Lk.	476	252	— (sp. ind. e.)
		<i>Mytilus Guiaënsis</i> Küst.			

Family **Chamidæ.**

477	253	<i>Chama Buddiana</i> Ad.	478	254	<i>Chama echinata</i> Brod.
477	253	<i>corrugata</i> ? Brod.			

Family **Arcidæ.**

478	254	<i>Nucula Elenensis</i> Sowb.	479	255	<i>Nucula polita</i> Sh. [Sh.]
479	255	<i>exigua</i> Sowb.	480	256	<i>Pectunculus assimilis</i>

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Ann. P. S.			Ann. P. S.		
Pa.	Pa.		Pa.	Pa.	
481	257	Pectunculus macu-	484	260	Arca (Byssosarca) pho-
		latus Brod.			ladiformis Ad.
481	257	Arca alternata Rve.	485	261	Reeveana D'Orb.
		<i>Byssosarca alternata</i>			<i>A. Heblingii</i> Rve.
		Swb.	485	261	reversa Sowb.
481	257	aviculoides? Shy.			<i>A. hemicardium</i> Koch.
		<i>A. auriculata</i> Sowb.	485	261	similis Ad.
482	258	emarginata Sowb.	486	262	solida Shy. [Sowb.
482	258	gradata Brod. & Shy.			<i>Byssosarca solida</i>
483	259	grandis Brod. & Shy.	486	262	(Byssosarca) Tabo-
483	259	mutabilis Shy. [Sowb.			gensis Ad.
		<i>Byssosarca mutabilis</i>	487	263	tuberculosa Sowb.
			488	264	— (sp. ind. a.)

Family **Cardiidae.**

488	264	Cardita affinis Sowb.	491	267	Cardium obovale Br.
		<i>C. nodulosa</i> Val.?			<i>& Sowb.</i>
489	265	laticosta Sb.	491	267	planicostatum Sowb.
		<i>C. arcella</i> Val.	491	267	procerum Sowb.
489	265	radita Sowb.	492	268	senticosum Sowb.
490	266	Cardium graniferum			<i>C. rastrum</i> Rve.
		<i>Brod. & Sowb.</i>			

Family **Veneridae.**

493	269	Venus amathusia Phil.	496	272	Cytherea aurantiaca
493	269	discors Sowb.			<i>Sowb.</i>
493	269	gnidia Brod. et Sowb.			<i>C. aurantia</i> Hanley.
494	270	multicostata Sowb.	496	272	consanguinea Ad.
		<i>V. Thouarsi</i> Val.	497	273	radiata Sowb.
494	270	pectunculoides Val.	497	273	squalida Sowb.
495	271	subrugosa Sowb.			<i>C. biradiata</i> Gray.
		<i>Cytherca subsulcata?</i>	498	274	Artemis Dunkeri Rve.
		Mke.			<i>Cytherca Dunkeri</i> Ph.
495	271	— (sp. ind. a.)			<i>Artemis Pacifica</i> Tros.
495	271	— (sp. ind. b.)	499	275	saccata Gould.
496	272	Cytherea affinis Sowb.	499	275	Gouldia Pacifica Ad.
			499	275	Cyrena maritima Ad.

Family **Tellenidae.**

500	276	Lucina tellinoides Rve.	501	277	Donax gracilis Hanl.
500	276	Capsa altior Sowb.	502	278	navicula Hanl.
501	277	Donax assimilis Hanl.	502	278	rostratus Ad.

[Annals of New York Lyceum and Panama Shells.]

ANN. P. S.			ANN. P. S.		
Pa.	Pa.		Pa.	Pa.	
503	279	Tellina aurora <i>Hanl.</i>	507	283	Tellina puella <i>Ad.</i>
503	279	cognata <i>Ad.</i>	507	283	rubescens <i>Hanl.</i>
504	280	Columbiensis <i>Hanl.</i>	508	284	siliqua <i>Ad.</i>
504	280	concinna <i>Ad.</i>	508	284	simulans <i>Ad.</i>
505	281	crystallina <i>Chemn.</i>			<i>T. punicea</i> part <i>Hanl.</i>
505	281	Cumingii <i>Hanl.</i>	509	285	sincera <i>Hanl.</i>
506	282	Dombei <i>Hanl.</i>	509	285	vicina <i>Ad.</i>
506	282	felix <i>Hanl.</i>	510	286	—— (sp. ind. a.)
506	282	laceridens <i>Hanl.</i>	510	286	—— (sp. ind. b.)
507	283	prora <i>Hanl.</i>	510	286	—— (sp. ind. c.)

Family **Petricolidæ.**

510	286	Petricola cognata <i>Ad.</i>	511	287	Saxicava tenuis ? <i>Sowb.</i>
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Family **Mactridæ.**

511	287	Cumingia coarctata <i>Sb.</i>	515	291	Amphidesma tor-
512	288	trigularis <i>Sowb.</i>			tuosum <i>Ad.</i>
512	288	—— (sp. ind. a.)	516	292	ventricosum <i>Ad.</i>
512	288	—— (sp. ind. b.)	516	292	Crassatella gibbosa <i>Sb.</i>
512	288	—— (sp. ind. c.)	517	293	Mulinia donaciformis
512	288	—— (sp. ind. d.)	517	293	ventricosa <i>Gld.</i> [<i>Hanl.</i>
512	288	Amphidesma bicolor.			<i>Lutraria ventricosa</i>
513	289	ellipticum <i>Sowb.</i> ? [<i>Ad.</i>			<i>Gould.</i>
513	289	proximum <i>Ad.</i>	517	293	Lutraria elegans <i>Sby.</i>
514	290	pulchrum <i>Sowb.</i>			<i>Mactra elegans</i> <i>Sowb.</i>
515	291	striosum <i>Ad.</i>	518	294	Mactra velata <i>Phil.</i>

Family **Corbulidæ.**

518	294	Anatina alta <i>Ad.</i>	522	298	Corbula obesa <i>Hinds.</i>
519	295	Pandora cornuta <i>Ad.</i>	522	298	ovulata <i>Sowb.</i>
519	295	Potamomya æqualis	523	299	rubra <i>Ad.</i>
520	296	inflata <i>Ad.</i> [<i>Ad.</i>	523	299	tenuis <i>Ad.</i>
520	296	trigonalis <i>Ad.</i>	524	300	—— (sp. ind. a.)
521	297	Corbula bicarinata <i>Sb.</i>	524	300	—— (sp. ind. b.)
521	297	biradiata <i>Sowb.</i>			

Family **Solenidæ.**

524	300	Solecurtus affinis <i>Ad.</i>	524	300	Solen rudis <i>Ad.</i>
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[Annals of New York Lyceum and Panama Shells.]

Family **Pholadidæ.**

Ann. P. S.			Ann. P. S.	
Pa.	Pa.		Pa.	Pa.
525	301	Pholas crucigera Sowb.		<i>Penitella xylophaga?</i>
526	302	tubifera Sowb.		Val.
526	302	xylophaga Val.	526	302 Pholas — (sp. ind. a.)
			526	302 — (sp. ind. b.)

CLASS **BRACHIOPODA.**527 303 **Orbicula Cumingii** Brod.

SYNOPSIS OF NEW SPECIES.

528	304	Ovula neglecta Ad.	532	308	Pleurotoma atrior Ad.
528	304	variabilis Ad.	532	308	concinna Ad.
528	304	Marginella minor Ad.	532	308	exigua Ad.
528	304	Mitra solitaria Ad.	532	308	gemmulosa Ad.
528	304	Oliva inconspicua Ad.	532	308	grandimaculata Ad.
528	304	Nassa canescens Ad.	533	309	striosa Ad.
529	305	collaria Ad.	533	309	Mangelia neglecta Ad.
529	305	corpulenta Ad.	533	309	Cerithium assimilatatum
529	305	gemmulosa Ad.			[Ad.]
529	305	glauca Ad.	533	309	bimarginatum Ad.
529	305	Panamensis Ad.	533	309	famelicum Ad.
529	305	proxima Ad.	533	309	neglectum Ad.
529	305	striata Ad.	533	309	pauperculum Ad.
529	305	versicolor Ad.	534	310	pulchrum Ad.
530	306	Wilsoni Ad.	534	310	Reevianum Ad.
530	306	Buccinum lugubre Ad.	534	310	validum Ad. [Ad.]
530	306	Stimpsonianum Ad.	534	310	Triphoris alternatus
530	306	Purpura foveolata Ad.	534	310	inconspicuus Ad.
530	306	osculans Ad. [Ad.]	534	310	infrequens Ad.
530	306	Columbella conspicua	534	310	Cœcum diminutum Ad.
530	306	diminuta Ad.	535	311	eburneum Ad.
531	307	gracilis Ad.	535	311	firmatum Ad.
531	307	mœsta Ad.	535	311	læve Ad.
531	307	pulchrior Ad.	535	311	laqueatum Ad.
531	307	tesselata Ad.	535	311	monstrosum Ad.
531	307	Riccinula jugosa Ad.	535	311	parvum Ad.
531	307	Triton fusoides Ad.	535	311	pygmæum Ad.
531	307	Fusus bellus Ad.	535	311	Chemnitzia aculeus Ad.
532	308	Cancellaria affinis Ad.	535	311	acuminata Ad.
532	308	pygmæa Ad.	535	311	affinis Ad.

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Ann. P. S.		Ann. P. S.	
Pa.	Pa.	Pa.	Pa.
535 311	Chemnitzia clathratula	541 317	Turbo ? phasaniella <i>Ad.</i>
536 312	communis <i>Ad.</i> [<i>Ad.</i>	541 317	rutilus <i>Ad.</i>
536 312	gracilior <i>Ad.</i>	541 317	Eulima iota <i>Ad.</i>
536 312	major <i>Ad.</i>	541 317	recta <i>Ad.</i>
536 312	marginata <i>Ad.</i>	542 318	solitaria <i>Ad.</i>
536 312	Panamensis <i>Ad.</i>	542 318	Pyramidella conica <i>Ad.</i>
536 312	similis <i>Ad.</i>	542 318	Pedipes angulata <i>Ad.</i>
536 312	striosa <i>Ad.</i>	542 318	Auricula concinna <i>Ad.</i>
536 312	turrita <i>Ad.</i>	542 318	infrequens <i>Ad.</i>
537 313	Littorina ? anglostoma	542 318	Panamensis <i>Ad.</i>
537 313	atrata <i>Ad.</i> [<i>Ad.</i>	542 318	Tabogensis <i>Ad.</i>
537 313	dubiosa <i>Ad.</i>	543 319	trilineata <i>Ad.</i>
537 313	? excavata <i>Ad.</i>	543 319	Truncatella Bairdiana
537 313	? foveata <i>Ad.</i>	543 319	? dubiosa <i>Ad.</i> [<i>Ad.</i>
537 313	? megasoma <i>Ad.</i>	543 319	Bulla infrequens <i>Ad.</i>
537 313	Rissoa clandestina <i>Ad.</i>	543 319	luticola <i>Ad.</i>
537 313	firmata <i>Ad.</i>	543 319	Stomatella inflata <i>Ad.</i>
538 314	fortis <i>Ad.</i>	543 319	Calyptrea aberrans
538 314	? inconspicua <i>Ad.</i>		<i>Ad.</i>
538 314	infrequens <i>Ad.</i>	543 319	(Syphopatella) as-
538 314	Janus <i>Ad.</i>		persa <i>Ad.</i>
538 314	notabilis <i>Ad.</i>	544 320	planulata <i>Ad.</i>
538 314	scalariformis <i>Ad.</i>	544 320	(Syphopatella) re-
538 314	Cingula ? inconspicua		gularis <i>Ad.</i>
539 315	paupercula <i>Ad.</i> [<i>Ad.</i>	544 320	Crepidula cerithicola
539 315	? terebellum <i>Ad.</i>	544 320	nivea <i>Ad.</i> [<i>Ad.</i>
539 315	turrita <i>Ad.</i>	544 320	osculans <i>Ad.</i>
539 315	Litiopa ? saxicola <i>Ad.</i>	544 320	rostrata <i>Ad.</i>
539 315	Adeorbis ? abjecta <i>Ad.</i>	544 320	Fissurella alta <i>Ad.</i>
539 315	Vitrinella concinna <i>Ad.</i>	544 320	Anomia tenuis <i>Ad.</i>
539 315	exigua <i>Ad.</i>	544 320	Chama Buddiana <i>Ad.</i>
539 315	Janus <i>Ad.</i>	545 321	Arca pholadiformis <i>Ad.</i>
540 316	minuta <i>Ad.</i>	545 321	similis <i>Ad.</i>
540 316	modesta <i>Ad.</i>	545 321	Tabogensis <i>Ad.</i>
540 316	Panamensis <i>Ad.</i>	545 321	Cytherea consan-
540 316	parva <i>Ad.</i>		guinea <i>Ad.</i>
540 316	perparva <i>Ad.</i>	545 321	Gouldia Pacifica <i>Ad.</i>
540 316	regularis <i>Ad.</i>	545 321	Cyrena maritima <i>Ad.</i>
540 316	seminuda <i>Ad.</i>	545 321	Donax rostratus <i>Ad.</i>
540 316	tricarinata <i>Ad.</i>	545 321	Tellina cognata <i>Ad.</i>
541 317	valvatoides <i>Ad.</i>	546 322	concinna <i>Ad.</i>
541 317	Trochus coronulatus	546 322	puella <i>Ad.</i>
541 317	Leanus <i>Ad.</i> [<i>Ad.</i>	546 322	siliqua <i>Ad.</i>

[Annals of New York Lyceum and Panama Shells.]

ANN. P. S. Pa. Pa.		ANN. P. S. Pa. Pa.	
546 322	<i>Tellina simulans</i> Ad.	547 323	<i>Anatina alta</i> Ad.
546 322	<i>vicina</i> Ad.	547 323	<i>Pandora cornuta</i> Ad.
546 322	<i>Petricola cognata</i> Ad.	547 323	<i>Potamomya æqualis</i>
547 323	<i>Amphidesma bicolor</i>	548 324	<i>inflata</i> Ad. [Ad.
547 323	<i>proximum</i> Ad. [Ad.	548 324	<i>trigonalis</i> Ad.
547 323	<i>striosum</i> Ad.	548 324	<i>Corbula rubra</i> Ad.
547 323	<i>tortuosum</i> Ad.	548 324	<i>Solecurtus affinis</i> Ad.
547 323	<i>ventricosum</i> Ad.	548 324	<i>Solen rudis</i> Ad.

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Page.

- 14 **Redfield.**—Descriptions of new species of Helicidæ: by JOHN H. REDFIELD.

14	<i>Bulimus lentiginosus</i> Redfield.	Trinidad.
15	<i>Siamensis</i> Redfield.	Siam.
16	<i>Helix circumfirmata</i> Redfield.	Bermuda.

- 17 Note on—

Geographical distribution of *Bulimus ventricosus* Fer.

- 18 **Newcomb.**—Descriptions of new species of Achatinella from Sandwich Islands: by DR. W. NEWCOMB.

18	<i>Achatinella violacea</i> Newc.	Molokai.
19	<i>tessellata</i> Newc.	Molokai.
19	<i>Adamsi</i> Newc.	Makawao, Maui.
20	<i>splendida</i> Newc.	Waialukee, Maui.
21	<i>Gouldi</i> Newc.	Waialukee, Maui.
21	<i>rufa</i> Newc.	Molokai.
22	<i>Redfieldi</i> Newc.	Maui.
22	<i>ovata</i> Newc.	Oahu.
23	<i>dubia</i> Newc.	Oahu.
24	<i>polita</i> Newc.	Molokai.
24	<i>obesa</i> Newc.	Maui.
25	<i>Cumingii</i> Newc.	Maui.
25	<i>Pfeifferi</i> Newc.	Molokai.
26	<i>elongata</i> Newc.	Oahu.
27	<i>Helena</i> Newc.	Molokai.
27	<i>labiata</i> Newc.	Oahu.
28	<i>mucronata</i> Newc.	Molokai.
28	<i>fusca</i> Newc.	Oahu.
29	<i>lineolata</i> Newc.	E. Maui.
29	<i>grana</i> Newc.	E. Maui.

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- 35 **Fairbank.**—Observations on the animal of *Rotella Lam.*: by Rev. S. B. FAIRBANK, of Bombay. (With a fig.)

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- 68 **Shuttleworth.**—Catalogue of the Terrestrial and Fluvatile Shells of St. Thomas, West Indies: by R. J. SHUTTLEWORTH, &c.

[In the remarks are also additional notes on synonymy and habitat.—W. G. B.]

Pa.

- 68 **Helix vortex** Pfr.
 68 *subaquila* Sh.
 68 *euclasta* Sh.
 69 *Gundlachi* Pfr.
 69 *incerta* Pfr.
 69 *nemoralina* Petit.
 69 *Bulimus virgulatus* Fer.
 69 *fraterculus* Fer.
 69 *Guadalupensis* Brug.
 70 *Stenogyra subula* Pfr.
 70 *octonoides* Ad.
 70 *Goodalli* Müll.
 70 *Swiftiana* Pfr.
 70 *octona* Chemn.
 70 *Achatina subtilis* Pfr.
 70 *Gundlachi* Pfr.
 70 *Spiraxis ejuncida* Sh.
 71 *Pupa servilis* Gld. [Pfr.
 71 *Macroceramus microdon*
 71 *Cylindrella pallida* Guild.
 71 *Succinea approximans* Sh.
 71 *Cyclostoma* (Megal.) *antillarum* Sowb.

Pa.

- 71 *Cyclostoma* (*Chondropoma*) *Newcombianum* Ad.
 71 *Helicina subfusca* Mke.
 72 *foveata* Pfr.
 72 var. *rubella*.
 72 *Truncatella subcylindrica*
 72 *pulchella* Pfr. [Gray.
 72 *clathrus* Lowe.
 72 *Planorbis decipiens* Ad.?
 72 *circumlineatus* Sh.
 72 *Physa Sowerbyana* D'Orb.
 72 *striata* D'Orb.
 72 *Ancylus obscurus* Hald.
 73 *Amnicola crystallina* Pfr.
 Paludestrina coronata Pfr.
 73 *Neritina virginea* Linn.
 73 *meleagris* Lam.
 73 *viridis* Lam.
 73 *Melampus coniformis* Brug.
 73 *monilis* Lam.
 73 *nitens* Lam.
 73 *Pedipes quadridens* Pfr.
 73 *Odostomia* (*Tornatellina*)
 Cubensis Pfr.

[Most of the above species are also said to inhabit Porto Rico.—W. G. B.]

- 74 **Bland.**—Note on the geographical distribution of the Terrestrial Mollusks which inhabit the Island of St. Thomas, West Indies: by T. BLAND.

[The following species are named.—W. G. B.]—

- | | |
|-------------------------|-------------------------------|
| 74 Helix vortex. | 74 Bulimus virgulatus. |
| 74 Gundlachi. | 74 Guadalupensis Brug. |
| 74 nemoralina. | 74 fraterculus. |
| 74 euclasta. | 74 Achatina Gundlachi. |
| 74 incerta. | 74 Spiraxis? ejuncida. |
| 74 notabilis. | 74 Pupa servilis. |

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74 *Macroceramus microdon*.74 *Cylindrella pallida*.74 *Cyclostoma Antillarum*.

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74 *Cyclostoma Newcombi-*
anum.74 *Helicina subfusca*.

74 foveata.

75 **Bland.**—On the absorption of parts of the internal structure of their Shells by the animals of *Stoastoma*, *Lucidella*, *Trochatella*, *Helicina*, and *Proserpina* : by T. BLAND.

[A list of the species examined is given.—W. G. B.]

76 *Helicina maxima* Sowb.76 *albolabris* Ad.76 *palliat* Ad.76 *Hollandi* Ad.76 *neritella* Lam.76 *Lucidella aureola* Gray.76 *Trochatella Tankervillei*76 *pulchella* Gray. [Gray.]76 *Stoastoma pisum* Ad.76 *Proserpina pulchra* Ad.76 *nitida* Sowb.76 *pisum* Ad.76 *globulosa* D'Orb.76 *depressa* D'Orb.76 *bidentata* D'Orb.

77 **Bland.**—On *Proserpina opalina* C. B. Ad., and *Helix Proserpinula* Pfr. : by T. BLAND.

78 *Helix infortunata* Bland.*H. hyalina* Ad.*opalina* Ad.*H. margarita* Pfr.*Odontostoma opalinum* Pfr.*Proserpina opalina* Pfr.

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Pa. Pl. Fig.

131 **J. H. Redfield.**—(Vide p. 240.)131 i 7 *Cyclostoma inornatum* Redf. Guadeloupe.

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142 **Newcomb.**—Descriptions of new species of *Achatinella* : by W. NEWCOMB, M. D.

142 *Achatinella zebra* Newc.143 *humilis* Newc.143 *petricola* Newc.144 *fusoides* Newc.144 *pusilla* Newc.145 *Dwightii* Newc.146 *Remyi* Newc.147 *Wheatleyi* Newc. = *A. vidua* Pfr.147 *oviformis* Newc. = *A. Sowerbyana* Pfr.

East Maui.

Kalai, Molokai.

Molokai.

East Maui.

Ranai.

Molokai.

Ranai.

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Pa. Pl. Fig.

- 147 **Bland.**—Notes on—
 147 Certain Terrestrial Mollusks which inhabit the West Indies : by T. BLAND.
 147 On the occurrence of *Pupa bicolor* Hutton, in the Island of St. Thomas.
 148 On the animal of *Proserpina*.
 150 On the structure of the axis of the shell of *Cylindrella*.
 150 v 19 *Cylindrella elatior*.
 150 *tenera* C. B. Ad.
 151 *tenella* C. B. Ad.
 151 v 16 *Agnesiana* C. B. Ad.
 151 v 17 *pruinosa* Mor.
 151 v 18 *strangulata* Poey.
 151 *Oviedoiana* D'Orb.
 151 *Proserpina opalina*.
 151 **Bland.**—Corrections and additional facts, especially as to the habitat of sundry species.
 151 *Helix Cassaquiensis* Newc. Demarara.
 152 *cognata* Fer. Jamaica.
 152 *conspersula* Pfr. Jamaica.
 152 *cornu-militare* L. Dominican Republic.
 152 *formosa* Fer. Antigua.
 152 *orbiculata* Fer. Sta. Lucia.
 152 *Pallasiana* Pfr. Bonin Island?
 153 *penicillata* Gld. = *H. Cubensis* Pfr.
 153 *Sagraiana* D'Orb. Mts. betw. Guajabon
 153 *similaris* Fer. Barbadoes. [& Rangel.
 153 *Bulimus aulacostylus* Pfr. Sta. Lucia, Trinidad,
B. lentiginosus Redf. [Demarara.
 154 *Cylindrella tricolor* Pfr. Jamaica.
C. Maugeri (var.) *raphinina* Chitty.
 154 *Cyclostoma versicolor* Pfr. Jamaica.
 154 *rufilabrum* Beck. St. Croix.
C. bilabre Mke.
 154 *Beauianum* Petit. Guadaloupe.
C. inornatum Redf.

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Pa. Pl. Fig.

- 155 **Chitty.**—Descriptions of two new species of *Cylindrella*,
from Jamaica, West Indies : by the Hon. E. CHITTY, &c.
- 155 v 1, 2 ***Cylindrella megaheila* Chitty.** Hanover Parish.
156 v 3, 4 ***amethystina* Chitty.** Hanover Parish.
156 ***amethystina* Chitty (var.) *cerina*.**
156 ***Baquiaena* Chitty.** Jamaica.
C. Adamsiana Chitty.
156 ***Leptinaria* ———?**
- 157 **Haines.**—Descriptions of five new species of Terrestrial
Shells from Siam : by WILLIAM A. HAINES.
- 157 v 12-15 ***Cyclostoma Housei* Haines.** Siam.
157 v 9-11 ***Myersii* Haines.** Siam.
158 v 5-8 ***distortum* Haines.** Siam.
158 ***Vitrina Siamensis* Haines.** Siam.
158 ***Helix distincta* Pfr.** Siam.

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Pa. Pl. Fig.

- 173 **Gulick.**—Descriptions of new species of *Achatinella* from the Hawaiian Islands : by J. T. GULICK.
[The exact localities are given.—W. G. B.]
- 173 vi 1 ***Achatinella leucochila* Gulick.**
174 vi 2 ***resinula* Gulick.**
175 vi 3 ***lagna* Gulick.**
176 vi 4 ***lacrima* Gulick.**
177 vi 5 ***costulata* Gulick.**
178 vi 6 ***striatella* Gulick.**
179 vi 7 ***marginata* Gulick.**
180 vi 8 ***fuscula* Gulick.**
181 vi 9 ***fumida* Gulick.**
182 vi 10 ***gummea* Gulick.**
183 vi 11 ***fragilis* Gulick.**
184 vi 12 ***triticea* Gulick.**
185 vi 13 ***granifera* Gulick.**
186 vi 14 ***crystallina* Gulick.**
187 vi 15 ***saxatilis* Gulick.**
188 vi 16 ***exilis* Gulick.**
189 vi 17 ***petila* Gulick.**
190 vi 18 ***octogyrata* Gulick.**
191 vi 19 ***subula* Gulick.**
192 vi 20 ***turrita* Gulick.**

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Pa.	Pl.	Fig.	
193	vi	21	<i>Achatinella terebralis</i> Gulick.
194	vi	22	<i>stiria</i> Gulick.
194	vi	23	<i>vitrea</i> Gulick.
195	vi	24	<i>parvula</i> Gulick.
196	vi	25	<i>platystyla</i> Gulick.
197	vi	26	<i>peza</i> Gulick.
198	vi	27	<i>lactea</i> Gulick.
199	vi	28 ^{a, b}	<i>eburnea</i> Gulick.
200	vii	29	<i>ampulla</i> Gulick.
201	vii	30	<i>fasciata</i> Gulick.
202	vii	31 ^{a, b}	<i>Baileyana</i> Gulick.
204	vii	32	<i>pyramidalis</i> Gulick.
205	vii	33	<i>undosa</i> Gulick.
207	vii	34 ^{a, c}	<i>induta</i> Gulick.
209	vii	35	<i>lignaria</i> Gulick.
210	vii	36	<i>crocea</i> Gulick.
211	vii	37	<i>ustulata</i> Gulick.
212	vii	38	<i>talpina</i> Gulick.
213	vii	39	<i>plumbea</i> Gulick.
214	vii	40	<i>phacozona</i> Gulick.
217	vii	41	<i>plumata</i> Gulick.
220	vii	42 ^{a, b}	<i>diversa</i> Gulick.
222	vii	43	<i>varia</i> Gulick.
			<i>A. vulpina</i> Rve. non Fer.
224	vii	44 ^{a, b}	<i>versipellis</i> Gulick.
225	vii	45	<i>cucumis</i> Gulick.
226	vii	46	<i>trilineata</i> Gulick.
227	vii	47	<i>analoga</i> Gulick.
229	vii	48	<i>papyracea</i> Gulick.
230	vii	49	<i>junceae</i> Gulick.
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231	viii	50	<i>delta</i> Gulick.
232	viii	51	<i>glauca</i> Gulick.
233	viii	52	<i>herbacea</i> Gulick.
234	viii	53	<i>cæsia</i> Gulick.
234	viii	54	<i>concidens</i> Gulick.
235	viii	55	<i>formosa</i> Gulick.
236	viii	56	<i>dimorpha</i> Gulick.
237	viii	57	<i>albescens</i> Gulick.
238	viii	58	<i>zonata</i> Gulick.
239	viii	59	<i>contracta</i> Gulick.
240	viii	60	<i>cognata</i> Gulick.
241	viii	61	<i>scitula</i> Gulick.
241	viii	62	<i>cervina</i> Gulick.

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Pa.	Pl.	Fig.	Notes on—
243			<i>A. vulpina</i> Fer. <i>A. producta</i> Rve. <i>A. bilineata</i> Rve.
243			<i>A. vulpina</i> Rve. = <i>A. varia</i> Gulick.
243			<i>A. livida</i> Swains.
243			<i>A. Stewartii</i> Green.
243			<i>A. venulata</i> Newc. = <i>A. vulpina</i> .
243			<i>A. hybrida</i> Newc. = <i>A. vulpina</i> .
243			<i>A. venulata</i> (var. a) = <i>A. Stewartii</i> .
243			<i>A. Johnsonii</i> Newc. = <i>A. Byronii</i> .
243			<i>A. aplustre</i> Newc. = <i>A. Byronii</i> .
243			<i>A. pulcherrima</i> = <i>A. Byronii</i> .
243			<i>A. livida</i> Swains.
244			<i>A. lorata</i> Rve. = <i>pulcherrima</i> Swains, &c. &c.
245	viii	63	<i>Achatinella obliqua</i> Gulick.
246	viii	64	<i>oomorpha</i> Gulick.
247	viii	65	<i>spadicea</i> Gulick.
248	viii	66	<i>corrugata</i> Gulick.
249	viii	67	<i>rotunda</i> Gulick.
250	viii	68	<i>torrida</i> Gulick.
251	viii	69	<i>nympha</i> Gulick.
252	viii	70 ^{a, b}	<i>limbata</i> Gulick.
253	viii	71	<i>bulbosa</i> Gulick.
254	viii	72	<i>mahogani</i> Gulick.
254	viii	73	<i>virens</i> Gulick.
255			Gill. —Description of a new species of the genus <i>Cypræa</i> Linn.: by THEO. GILL.
256	ix	1-3	<i>Cypræa notata</i> Gill. East Indies.
Vol. vi, No. 8. Sept. 1858.			
303			Newcomb. —Synopsis of the genus <i>Achatinella</i> : by W. NEWCOMB, M. D.
305	<i>Achatinella textilis</i> Fer.		<i>A. diversa</i> Gulick.
	<i>A. ventulus</i> Rve.		<i>varia</i> Gulick.
	<i>microstoma</i> Gould.		<i>analoga</i> Gulick.
	<i>ventulus</i> Pfr.		<i>virens</i> Gulick.
306	<i>ventulus</i> Fer.		<i>livida</i> Pfr. not Swains.
	<i>A. melampoides</i> Pfr.	307	<i>Achatinella gravis</i> Fer.
306	<i>vulpina</i> Fer.		<i>A. suffusa</i> Rve.
	<i>A. Stewarti</i> Green.		<i>Dimondi</i> C. B. Ad.

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307	Achatinella spirizona Fer.		<i>A. ustulata</i> Gulick.
	<i>A. acuta</i> Swains.	311	Achatinella picta Migh.
307	turritella Fer.		<i>A. bulbosa</i> Gulick.
	<i>A. Oahuensis</i> Green.		<i>picta</i> Pfr.
	<i>inornata</i> Migh.	311	venusta Migh.
307	decora Fer.	312	citrina Migh.
	<i>A. vestita</i> Migh.	312	plicata Migh.
	<i>perversa</i> Pfr. not Sw.		<i>Bulimus liratus</i> Pfr.
	<i>simulans</i> Pfr. [Rve.	312	nubilosa Migh.
	<i>lugubris</i> (var.) Pfr. not	312	virgulata Migh.
	<i>vittata</i> Pfr. not Rve.		<i>A. Rohri</i> Pfr.
308	tristis Fer.		<i>Bulimus Rohri</i> Pfr.
	<i>A. fuliginosa</i> Gould.		<i>A. insignis</i> Migh.
308	lugubris Chemn.	312	viridans Migh.
	<i>A. pica</i> Swains.		<i>A. radiata</i> Pfr.
	<i>Monodonta seminigra</i> Lk.		<i>radiata</i> Rve.
	<i>Bulimus seminiger</i> Mke.		<i>rutila</i> Pfr. not Newc.
308	luteola Fer.		<i>sub-virens</i> Pfr. not
308	pulcherrima Swains.		Newc.
	<i>A. mahogani</i> Gulick.		<i>decipiens</i> Pfr. not
	<i>napus</i> Pfr.	313	mustelina Migh. [Newc.
309	perversa Swains.		<i>A. lorata</i> (var. ♂) Pfr.
	<i>A. concidens</i> Gulick.	313	cingula Migh.
	<i>cinnamomea</i> Pfr.	313	radiata Gould.
309	rosea Swains.		<i>A. dubia</i> Pfr. not Newc.
309	livida Swains. [Migh.		<i>grisea</i> Pfr. not Newc.
	<i>A. viridans</i> Rve. not		<i>Partula radiata</i> Pfr.
	<i>Reevei</i> C. B. Ad.		<i>Bulimus Gouldi</i> Pfr.
	<i>Emersonii</i> Newc.		<i>Partula densilineata</i> Rve.
	<i>glauca</i> Gulick.	314	rubens Gould.
310	bulimoides Swains.		<i>A. rubens</i> Rve.
	<i>A. obliqua</i> Gulick.		<i>Mastersii</i> Pfr.
	<i>oomorpha</i> Gulick.	314	nucleola Gould.
	<i>bulimoides</i> Rve.		<i>A. brevis</i> Pfr.
310	lorata Fer.	315	striatula Gould.
	<i>A. pallida</i> Nutt.		<i>A. clara</i> Pfr.
	<i>alba</i> Nutt.		<i>clara</i> Rve.
	<i>ventrosa</i> (var.) Pfr.	315	cerealis Gould.
311	marmorata Gould.	315	acuminata Gould.
	<i>A. Adamsii</i> Newc.	315	guttula Gould.
	<i>Adamsii</i> Newc.		<i>A. gummea</i> Gulick.
	<i>perdix</i> Pfr.		<i>fragilis</i> Gulick.
	<i>induta</i> Gulick.	315	vittata Rve. [Fer.
	<i>plumbea</i> Gulick.		<i>A. decora</i> (var.) Pfr. not

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	<i>A. globosa</i> Pfr.	320	Achatinella taeniolata Pfr.
315	Achatinella producta Rve.		<i>A. rubiginosa</i> Newc.
	<i>A. venulata</i> Newc.	320	variegata Pfr.
	<i>hybrida</i> Newc.		<i>A. rubens</i> (var.) Rve.
	<i>vulpina</i> Gulick not		<i>decepta</i> C. B. Ad.
316	simulans Rve. [Fer.	320	corneola Pfr.
	<i>A. decora</i> Pfr. not Fer.	320	aptycha Pfr.
316	bella Rve.	320	pulchella Pfr.
316	colorata Rve.	320	cinerosa Pfr.
	<i>A. ustulata</i> Pfr.	320	multicolor Pfr.
316	bilineata Rve. [Sw.		<i>A. oviformis</i> Newc.
	<i>A. pulcherrima</i> Rve. not	320	Swainsoni ? Pfr.
	<i>Byronii</i> Rve. not Gr.	320	Sowerbyana Pfr.
	<i>pulcherrima</i> Pfr. not	320	dolium Pfr.
317	abbreviata Rve. [Sw.	320	rudis Pfr.
	<i>A. nivosa</i> Newc.		<i>A. chlorotica</i> Pfr.
	<i>Clementina</i> Pfr.		<i>albida</i> Pfr.
317	castanea Rve.	321	fusiformis Pfr.
317	olivacea Rve.	321	gracilis Pfr.
	<i>A. prasinus</i> Rve.		<i>A. elevata</i> Newc.
317	adusta Rve.		<i>subula</i> Gulick.
317	perdix Rve.	321	crassidentata Pfr.
	<i>A. pyramidalis</i> Gulick.	321	nobilis Pfr.
	<i>undosa</i> Gulick.	321	Hanleyana Pfr.
318	bacca Rve.	321	zebrina Pfr.
318	straminea Rve.	322	extincta Pfr.
	<i>A. gravida</i> (var.) Fer.	322	obclavata Pfr.
318	Byronii Gray.		<i>A. octogyrata</i> Gulick.
	<i>A. melanastoma</i> Newc.		<i>turrita</i> Gulick.
	<i>limbata</i> Gulick. [Sw.	322	luctuosa Pfr.
	<i>pulcherrima</i> Rve. not	322	Grayana Pfr.
	<i>pulcherrima</i> Pfr. not	322	glutinosa Pfr.
319	ellipsoidea Gould. [Sw.		<i>A. lacrima</i> Gulick.
	<i>A. pupoidea</i> Newc.	322	callosa Pfr.
319	magna C. B. Ad.	322	dimidiata Pfr.
	<i>A. Baldwinii</i> Newc.	322	semicostata Pfr.
319	modesta C. B. Ad.		<i>A. costulata</i> Gulick.
319	Tappaniana C. B. Ad.	322	teres Pfr.
	<i>A. eburnea</i> Gulick.	322	oryza Pfr.
	<i>ampulla</i> Gulick.		<i>A. tritica</i> Gulick.
	<i>fasciata</i> Gulick.	322	margarita Pfr.
319	Mighelsiana Pfr.	322	sulcata Pfr.
319	pyramis Pfr.	322	auricula Fer.
	<i>A. leucochila</i> Gulick.		<i>Partula Dumartroyi</i> Soul.

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	<i>Auricula Owaihiensis</i>		<i>A. intermedia</i> Pfr. not Newc.
	Chamisso.		
	<i>Bulinus auricula</i> Pfr.	325	Achatinella intermedia
	<i>Auricula sinistrorsa</i>		<i>A. rudis</i> Pfr. [Newc.
	Chamisso.	325	casta Newc.
	<i>Bulinus armatus</i> Migh.		<i>A. dimorpha</i> Gulick.
	<i>Tornatellina Owaihiensis</i>		<i>cognata</i> Gulick (var.)
323	Achatinella lurida Pfr. [Pfr.		<i>junceae</i> Gulick.
	<i>Tornatellina castanea</i>	326	violacea Newc.
323	obeliscus Pfr. [Pfr.	326	sanguinea Newc.
	<i>Balea Newcombi</i> Pfr.		<i>A. Ferussaci</i> Pfr.
323	amœna Pfr.	326	porphyrea Newc.
323	cerea Pfr.		<i>A. grossa</i> Pfr.
323	Chamissoi Pfr.	326	gigantea Newc.
323	Newcombiana Pfr.	326	subvirens Newc.
	<i>A. Pfeifferi</i> Newc.		<i>A. viridans</i> Pfr. not Migh.
	<i>Bulinus Newcombianus</i>	326	rutila Newc.
323	Cumingi Newc. [Pfr.		<i>A. viridans</i> Pfr. not Migh.
	<i>A. gemma</i> Pfr.		<i>macrostoma</i> Pfr.
323	farcimen Pfr.		ampla Newc.
323	Dunkeri Cuming.	327	rugosa Newc.
323	Gouldi Newc.	327	multilineata Newc.
	<i>A. talpina</i> Gulick.	327	<i>A. monacha</i> Pfr.
324	ovata Newc.		glabra Newc.
	<i>A. candida</i> Pfr.	327	<i>A. platystyla</i> Gulick.
	<i>Fricki</i> Pfr.		<i>elegans</i> Pfr. not Newc.
	<i>vidua</i> Pfr.		elegans Newc.
	<i>cervina</i> Gulick.	327	tessellata Newc.
	<i>rotunda</i> Gulick.	327	sordida Newc.
	<i>spadicea</i> Gulick.	327	<i>A. Swainsoni</i> ? Pfr.
	<i>pheozona</i> ? Gulick.		fumosa Newc.
	<i>lorata</i> Rve. not Fer.	327	lineolata Newc.
324	rufa Newc.	327	nitida Newc.
324	fulgens Newc.		<i>A. crystallina</i> Gulick.
	<i>A. diversa</i> Gulick (var i.)		crassilabrum Newc.
324	splendida Newc.	327	cornea Newc.
	<i>A. Baileyana</i> Gulick.	327	labiata Newc.
325	Redfieldi Newc.	328	<i>A. dentata</i> Pfr.
325	cestus Newc.		<i>lagena</i> Gulick.
325	Swiftii Newc.		vitrea Newc.
	<i>A. valida</i> Pfr.	328	<i>A. fumida</i> Gulick.
	<i>apicata</i> Newc.		affinis Newc.
325	turgida Newc.	328	<i>A. goniostoma</i> Pfr.
325	cylindrica Newc.		

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328	Achatinella elongata Newc.		<i>A. rubens</i> (var.) Pfr. not Gld.
	<i>A. acuta</i> Newc.		
328	polita Newc.	332	Achatinella decipiens Newc.
329	soror Newc.		<i>A. viridans</i> Pfr. not Migh.
329	obesa Newc.		<i>planospira</i> Pfr.
329	terebra Newc.		<i>cuneus</i> Pfr.
	<i>A. attenuata</i> Pfr.		<i>torrida</i> Gulick.
	<i>lignaria</i> Gulick.		<i>corrugata</i> Gulick.
	<i>crocea</i> Gulick.		<i>scitula</i> Gulick.
329	melanosis Newc.		<i>herbacea</i> Gulick.
329	curta Newc.	333	variabilis Newc.
	<i>A. delta</i> Gulick.		<i>A. fulva</i> Newc.
	<i>albescens</i> Gulick.		<i>lactea</i> Gulick.
	<i>contracta</i> Gulick.	333	crassa Newc.
330	fusca Newc.	333	Buddii Newc.
	<i>A. striatella</i> Gulick.		<i>A. pera</i> Gulick.
	<i>petila</i> Gulick.		<i>plumata</i> Gulick.
330	recta Newc.		<i>papyracea</i> Gulick.
	<i>A. nympha</i> Gulick.		<i>cirsia</i> Gulick.
330	grana Newc.	333	biplicata Newc.
	<i>A. granifera</i> Gulick.	333	semicarinata Newc.
	<i>vitriola</i> Gulick.	334	moesta Newc.
	<i>parvula</i> Gulick.	334	obscura Newc.
330	porcellana Newc.	334	concinna Newc.
330	mucronata Newc.	334	undulata Newc.
330	Johnsoni Newc.	334	nigra Newc.
	<i>A. aplustre</i> Newc.	334	tetrao Newc.
330	assimilis Newc.	334	succincta Newc.
330	reticulata Newc.		<i>A. marginata</i> Gulick.
	<i>A. transversalis</i> Pfr.	334	zebra Newc.
	<i>conspersa</i> Pfr.	334	humilis Newc.
331	ornata Newc.	334	petricola Newc.
331	albo-labris Newc.		<i>A. umbilicata</i> Pfr.
	<i>A. nucleola</i> Rve. not Gld.	334	fusoidea Newc.
331	solitaria Newc.	334	pusilla Newc.
331	germana Newc.		<i>A. pulla</i> Newc.
331	flavescens Newc.	334	Dwightii Newc.
331	Helena Newc.	334	Remyi Newc.
331	physa Newc.	334	Maiensis Newc.
331	dubia Newc.	334	obtusa Newc.
	<i>A. radiata</i> Pfr. not Gld.	335	resinula Gulick.
332	grisea Newc.	335	saxatilis Gulick.
	<i>A. radiata</i> Pfr.	335	terebralis Gulick.
332	Mastersi Newc.	335	exilis Gulick.

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335	Achatinella stiria <i>Gulick.</i>	335	Achatinella trilineata <i>Gul.</i>
335	versipellis <i>Gulick.</i>		<i>A. zonata</i> <i>Gulick</i> (var.)
335	cucumis <i>Gulick.</i>	335	fuscula <i>Gulick.</i>
		335	formosa <i>Gulick.</i>

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94 Prime.—List of known species of *Pisidium*, with their synonymy:
by TEMPLE PRIME.

[The American species have already been given on p. 274.—W. G. B.]

95	Pisidium amnicum <i>Jen. Eur.</i>		<i>Pisidium Jenynsi</i> <i>McGil.</i>
	<i>Tellina amnica</i> <i>Müll.</i>		<i>vitrcum</i> <i>Pfr.</i>
	<i>striatu</i> <i>Schrot.</i>		<i>nitidum</i> <i>Jen.</i>
	<i>rivalis</i> <i>Mat. & Rack.</i>		<i>limosum</i> <i>Gas.</i>
	<i>Cyclas palustris</i> <i>Drap.</i>		<i>iratianum</i> <i>Dup.</i>
	<i>Cardium amnicum</i> <i>Mat.</i>		<i>thermale</i> <i>Dup.</i>
	<i>Cyclas obliqua</i> <i>Lam.</i>		<i>caliculatum</i> <i>Dup.</i>
	<i>Pisidium obliquum</i> <i>Pfr.</i>		<i>sinuatum</i> <i>Bgt.</i>
	<i>Cyclas amnica</i> <i>Turt.</i>		<i>lenticulare</i> <i>Dup.</i>
	<i>Pera fluviatilis</i> <i>Leach.</i>		<i>rotundum</i> <i>Ces.</i>
	<i>Henslowiana</i> <i>Leach.</i>		<i>globulosum</i> <i>Gas.</i>
	<i>Pisidium inflatum</i> <i>Meg.</i>		<i>planum</i> <i>Pfr.</i>
	<i>Cyclas Pfeifferi</i> <i>Meg.</i>		<i>Stabilei</i> <i>Schm.</i>
	<i>Pisidium palustre</i> <i>Nils.</i>	97	Pisidium conicum <i>Baud. Fr.</i>
	<i>Pfeifferi</i> <i>Zeigl.</i>	98	duplicatum <i>Pfr. Germ.</i>
	<i>Cordula amnica</i> <i>Leach.</i>		<i>Cyclas duplicata</i> <i>Pfr.</i>
	<i>Pisidium Grateloupianum</i>	98	Ferroense <i>Morch.</i>
	<i>Norm.</i>		<i>Fer. Isl.</i>
	<i>intermedium</i> <i>Gas.</i>	98	fuscum <i>Parr. Germ.</i>
	<i>sulcatum</i> <i>Parr.</i>	98	Gassiesianum <i>Dup. Fr.</i>
96	Canariense <i>Shull. Can.</i>		<i>P. Normandianum</i> <i>Dup.</i>
96	casertanum <i>Bgt. Eur.</i>		<i>tetragonum</i> <i>Norm.</i>
	<i>Cardium casertanum</i> <i>Poli.</i>		<i>Boudanianum</i> <i>Ces.</i>
	<i>amnicum</i> <i>Mont.</i>	98	Henslowianum <i>Jen. Eur.</i>
	<i>Cyclas vitrea</i> <i>Risso.</i>		<i>Pera Henslowiana</i> <i>Leach.</i>
	<i>Pera pulchella</i> <i>Leach.</i>		<i>Cyclas acuta</i> <i>Pfr.</i>
	<i>Pisidium pulchellum</i> <i>Jen.</i>		<i>Tellina Henslowiana</i> <i>Shep.</i>
	<i>australe</i> <i>Phil.</i>		<i>Cyclas appendiculata</i>
	<i>cinereum</i> <i>Ald.</i>		<i>Turt.</i>
	<i>Lumsternianum</i> <i>Forb.</i>		<i>Pisidium acutum</i> <i>Pfr.</i>
	<i>Cyclas pulchella</i> <i>Hanl.</i>		<i>Pera appendiculata</i>
	<i>cinerea</i> <i>Hanl.</i>		<i>Leach.</i>
	<i>lenticularis</i> <i>Norm.</i>		<i>Pisidium Jayanum</i> <i>Gas.</i>
	<i>Pisidium Joannis</i> <i>McGil.</i>		<i>Dupuyanum</i> <i>Norm.</i>

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	<i>Pisidium pallidum</i> Gas.		<i>Pisidium minimum</i> Stud.
	<i>Bonnafoxianum</i> Cēs.		<i>Cyclas ovalis</i> Nils.
	<i>Jaudouinianum</i> Gas.	101	<i>Pisidium ovale</i> Pet.
100	<i>Pisidium nitidum</i> Jen. Eur.		<i>Pisidium pusillum</i> Jen. Eur.
	<i>Cyclas pusilla</i> Turt.		<i>Tellina pusilla</i> Gmel.
	<i>nitida</i> Hanl.		<i>Cyclas fontinalis</i> (pars.)
	<i>P. incertum</i> Norm.		<i>P. fontinale</i> Pfr. [Dup.
100	<i>obtusale</i> Pfr. Eur.		<i>Cyclas pusilla</i> Turt.
	<i>Cyclas obtusalis</i> Lam.		<i>Englesa Henslowiana</i> Leach.
	<i>minima</i> Stud.	101	<i>P. roseum</i> Scholtz.
	<i>gibba</i> Ald.	102	<i>Recluzianum</i> Bgt. Eur.
	<i>Pera gibba</i> Leach.	102	<i>semen</i> Mke. Oceanica.
		102	<i>supinum</i> Schmidt.

Lea.—Notice of *Mya nodulosa* Wood: by ISAAC LEA. (From Proc. Phila. Acad. Nat. Sciences, vol. vi, p. 368. June, 1853.)

[Omitted accidentally from p. 552 of Bibliography.—W. G. B.]

Page.		Page.	
368	<i>Prisodon truncatus</i> Schum.		<i>Castalia Duprei</i> Recl.
	<i>Castalia ambigua</i> Lam.	368	<i>Prisodon nodulosus</i> Lea.
368	<i>Duprei</i> Lea.		<i>Mya nodulosa</i> Wood.

GENERAL WORKS.

SCHOOL BOOKS, &c.

There have been many works on general Natural History published in America, especially for the use of schools. They contain no descriptions, but often figures of species, though they rarely refer to American species. I have therefore quoted but the following, which will serve as specimens of the class. The list may be increased from Carus' and Engelmann's Bibliography. I have consulted all the works quoted by them.

Goodrich.—Illustrated Natural History—Mollusca, vol. ii, p. 487. New York, 1859: by SAMUEL G. GOODRICH. A figure of *Unio spinosus* is given.

Gould.—A System of Natural History, containing scientific and popular descriptions of various animals: by A. A. GOULD, M. D. Boston, 1853.

Pilkington.—Natural History; abridged for the use of Schools: by MRS. PILKINGTON. Philadelphia, 1818.

[Chapter viii, p. 257, treats of Shell-Fish of the Testaceous kind.—W. G. B.]

Mayo, C.—Conchology for Schools. New York.

Goodrich, S. G.—A Pictorial Natural History for the use of Schools. Boston, 1851.

Wyatt, Thos.—A Synopsis of Natural History, embracing the Natural History of Animals, with human and general Animal Physiology, Botany, Vegetable Physiology, and Geology. Translated from the French, with additions, and arranged as a text-book: by THOMAS WYATT. With 49 plates. Philadelphia, 1849.

[This is a translation of Lemonnier.—W. G. B.]

ENCYCLOPEDIAS, &c.

I have already quoted the American editions of Nicholson's Encyclopedia (p. 254), and the Iconographic Encyclopedia (p. 248). There are American editions of several other foreign Cyclopedias containing articles on general Conchology (usually under that title). The American Encyclopedias also treat of Conchology in the same general manner. Among these works are the following:—

Ree.—REE'S ENCYCLOPEDIA. Philadelphia, 1810–24. Conchology, vol. ix, p. 470.

EDINBURGH ENCYCLOPEDIA. Philadelphia, 1832. Conchology, vol. vi, pt. 2, pp. 677–730.

ENCYCLOPEDIA AMERICANA. Philadelphia, 1835. Conchology.

Hodge.—APPLETON'S NEW AMERICAN ENCYCLOPEDIA. New York, 1855–63. Mollusca, &c. Vol. v contains the article Conchology: by JAMES THACHER HODGE. 1859.

Brande's DICTIONARY OF ARTS AND SCIENCES. New York, 1844. Article Conchology, &c.

Gregory's DICTIONARY OF ARTS AND SCIENCES. Philadelphia, 1815, 1816.

Conrad.—Remarks on the fossil Shells from Chili, collected by Lieut. Gilliss, with descriptions of the species: by T. A. CONRAD. (From the U. S. Naval Astronomical Expedition, vol. ii, p. 282. Washington, 1855. The full title will be found on p. 521.)

[The following is the only recent species described.—W. G. B.]

Page.

286 **Saxicava Caldarensis** *Conr.*

PART I.
AMERICAN AUTHORS.

C.—WRITINGS ON FOREIGN SPECIES AND IN
FOREIGN WORKS.

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY.

IN order to complete the list of the Conchological writings of American authors, it becomes necessary to quote the titles of a few papers on foreign species published by them in foreign periodicals. Besides those given below, there have occurred in foreign works many criticisms, notices, translations, &c., of papers published by American authors in American books. Some few of these have been referred to in the previous pages of my Bibliography. Many more will be given in Part II, especially in the quotations from the *Isis*, *Journal de Conchyliologie*, *Zeitschrift für Malakozoologie*, *Malakozoolische Blätter*, *Bulletin Zoologique*, *Bibliographie Conchyliologique*, and *Archiv für Naturgeschichte*.

Rafinesque.—(See former pp. 403, 488.)

Lea.—Description of a new genus of the family Melaniana, and of many new species of the genus Melania, chiefly collected by Hugh Cuming, Esq., during his Zoological Voyage to the East, and now first described: by ISAAC LEA and HENRY CAREY LEA. (From the Proc. of the Zoological Society of London, vol. xviii, No. 212, p. 179, 1850; also distributed in a separate pamphlet, and published in *Annals of Nat. Hist.*, Second Series, vol. ix, p. 58.) And

Lea.—Description of five new species of Anodonta, collected by Hugh Cuming, Esq., in the East Indies. (From same as last, p. 197, and Ann. of Nat. Hist., Second Series, vol. viii, p. 493.)

Gould.—On the *Nautilus umbilicatus* of Lister : by AUG. A. GOULD, M. D. (From Proc. Zoological Soc. of London, 1857, p. 20 ; and Ann. and Magazine of Nat. History, Second Series, vol. xx, No. 115, p. 57. July, 1857.)

ZOOL. Soc. Page.	MAG. N. H. Page.	
21	59	<i>Nautilus umbilicatus</i> List.
21	59	<i>scrobiculatus</i> Solander.
		<i>N. pompilius</i> (var. ♂) Gmel.
		<i>crassus, umbilicatus</i> Chemn.
		<i>umbilicatus</i> Knorr.

Newcomb, W., M. D.—Descriptions of seventy-nine new species of *Achatinella*, *Swains.*, a genus of Pulmoniferous Mollusks, in the collection of Hugh Cuming. With three plates. (From Proc. Zool. Soc. London, 1853, p. 128.)

Newcomb, W., M. D.—Abstract of descriptions of some animals of *Achatinella*, and other remarks. (From same, 1854, p. 310.)

Lesueur, C. A.—Mémoire sur quelques nouvelles espèces d'animaux Mollusques et Radiaires de la Méditerranée, in Nouv. Bull. Scienc. Soc. Philom., tom. iii, 1813, pp. 281–285.

Lesueur, C. A.—Histoire du genre *Firola* : par FRC. PERON et C. A. LESUEUR. (From Annales du Muséum, xv, 1810, pp. 70–75.)

Carpenter, P. P.—Descriptions of new species of Shells collected by Mr. T. Bridges in the Bay of Panama and its vicinity. (From Proc. Zool. Soc. London, 1856, p. 159.)

[Other papers are contained in the Proc. Zool. Soc. London, and will be quoted from thence.—W. G. B.]

Adams, Bland, Lea.—In the *Journal de Conchyliologie* are notices and translations of several of the papers of Messrs. ADAMS, BLAND and LEA. They will be quoted in the Second Part of the Bibliography.

Agassiz, L.—Mémoires sur les Moules de Mollusques vivants et fossiles. (From. *Mém. de la Soc. des Sciences Naturelles de Neuchatel*, tome ii, 1839.)

Agassiz, L.—Notice sur le *Mya alba* de Porto Rico. (From same as last, vol. ii, 1839.)

Agassiz, L.—Note sur le genre *Pyrula* de Lamarek (in *Bull. de la Soc. Sc. Nat. Neuchatel*, tome i, 1844, p. 69).

Agassiz, L.—Notice sur les Moules du Musée de Neuchatel (in *Bull. Soc. Imp. Natur. Moscow*, 1839, p. 415).

APPENDIX I.

TO

PART I., SECTION A., AMERICAN WRITINGS
ON AMERICAN SPECIES.

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY.

Read.—Catalogue of the Marine, Fluvial, and Terrestrial Shells of Massachusetts: by WILLIAM READ, M. D. Lynn, Nov. 1845.

[No descriptions are given.—W. G. B.]

No.		No.	
22	Teredo navalis Linn.	38	Pandora trilineata Say. <i>P. nasuta</i> Sowb.
23	Pholas costata Linn.	39	Osteodesma hyalina Couth. <i>Mya hyalina</i> Conr.
24	crispata Linn.	40	Anatina papyratia Say.
25	Solen ensis Linn.	41	Cochlodesma Leana Couth. <i>Anatina Leana</i> Conr.
26	viridis Say.	42	Thracia Conradi Couth. <i>T. declivis</i> Conr.
27	Solecortus Caribæus Conr. <i>Solen Caribæus</i> Lam.	43	Mactra solidissima Chemn. <i>M. gigantea</i> Lam.
28	fragilis Conr. <i>Solen fragilis</i> Pult. <i>centralis</i> Say.	44	ovalis Gould. <i>M. similis</i> Gray.
29	Machæra costatus Gould. <i>Solecortus costatus</i> Say.	45	lateralis Say.
30	nitida Gould.	46	Cumingia tellinoides Conr. <i>Mactra tellinoides</i> Conr.
31	Solemya borealis Totten.	47	Mesodesma arotata Gould. <i>Mactra arotata</i> Conr.
32	velum Say.	48	Jaressii De Joannis.
33	Panopæa arctica Gould. <i>Glycymeris arctica</i> Lam.	49	Montacuta bidentata Gld.
34	Glycymeris siliqua Lam.	50	Kellia rubra Turt.
35	Mya arenaria Linn. <i>M. mercenaria</i> Say.	51	Saxicava distorta Say.
36	truncata Linn.		
37	Corbula contracta Say.		

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|-----|---|-----|---|
| No. | | No. | |
| 52 | Petricola pholadiformis
<i>P. fornicata</i> Say. [Lam. | 85 | Nucula minuta Turt.
<i>N. tenuisulcata</i> Couth. |
| 53 | dactylus Sowb. | 86 | myalis Couth. |
| 54 | Sanguinolaria fusca Conr.
<i>Psammobia fusca</i> Say. | 87 | navicularis Couth. |
| 55 | sordida Gould.
<i>Tellina sordida</i> Couth. | 88 | proxima Say. |
| 56 | Tellina tenera Say. | 89 | sapotilla Gould. |
| 57 | tenta Say. | 90 | tenuis Turt. |
| 58 | calcaria. | 91 | thraciæformis Storer. |
| 59 | Lucina radula Gould.
<i>Tellina radula</i> Mont. | 92 | Unio complanatus Lea.
<i>U. purpureus</i> Say. |
| 60 | divaricata Lam. | 93 | cariosus Say. |
| 61 | flexuosa Gould.
<i>Cryptodon flexuosa</i> Turt. | 94 | nasutus Say. |
| 62 | Cyclas dubia Say. | 95 | radiatus Barnes. |
| 63 | elegans Ad. | 96 | ochraceus Say. |
| 64 | partumeia Say. | 97 | Alasmodon arcuata Barnes. |
| 65 | similis Say. | 98 | marginata Say. |
| 66 | Astarte castanea Say.
<i>Crassina castanea</i> Lam. | 99 | undulata Barnes.
<i>Unio undulata</i> Say. |
| 67 | lactea Br. & Sowb. | 100 | Anodon fluviatilis Lea.
<i>A. cataracta</i> Say. |
| 68 | quadrans Gould. | 101 | implicata Say. |
| 69 | sulcata Fleming.
<i>Venus sulcata</i> Mont.
<i>Crassina sulcata</i> Lam.
<i>A. Danmoniensis</i> Sowb. | 102 | undulata Say. |
| 70 | Cyprina islandica Lam.
<i>Venus islandica</i> Linn. | 103 | Mytilus edulis Linn. |
| 71 | Cytherea convexa Say. | 104 | var. pellucidus Pennant. |
| 72 | Venus mercenaria Linn. | 105 | Modiola barbata Lam. |
| 73 | notata Say. | 106 | discors Flem. |
| 74 | præparca (var.) Say. | 107 | discrepans Gould.
<i>Mytilus discrepans</i> Mont. |
| 75 | fluctuosa Gould. | 108 | glandula Totten. |
| 76 | gemma Totten. [Chemn. | 109 | modiolus Turt.
<i>M. papuana</i> Lam. |
| 77 | Cardium Grœnlandicum | 110 | nexa Gould. |
| 78 | islandicum Linn.
<i>C. pubescens</i> Couth. | 111 | pectinula Gould. |
| 79 | Mortoni Conr. | 112 | plicatula Lam. |
| 80 | pinnulatum Conr. | 113 | Pecten concentricus Say. |
| 81 | Cardita borealis Conr. | 114 | islandicus Chemn.
<i>P. Pealii</i> Conr. |
| 82 | Arca pexata Say. | 115 | Magellanicus Lam. |
| 83 | transversa Say. | 116 | Ostrea borealis Lam.
<i>O. edulis</i> Linn. |
| 84 | Nucula limatula Say. | 117 | virginiana List. |
| | | 118 | Anomia aculeata Gmel. |
| | | 119 | squamula Linn. |
| | | 120 | ephippium Linn. |

No.		No.	
121	Terebratula caput-serpentis Lam.	159	Helix monodon Rack.
	<i>T. septentrionalis</i> Couth.		<i>H. fraterna</i> Say.
122	psittacea Gmel.	160	hirsuta Say.
123	Chiton albus Mont.		<i>H. fraterna</i> Wood.
	<i>C. sagrinatus</i> Couth.	161	pulchella Müll.
124	apiculatus Say.		<i>H. minuta</i> Say.
125	anus Sowb.	162	striatella Anth.
	<i>C. Emersonii</i> Couth.	163	thyroidus Say.
126	fulminatus Couth.	164	tridentata Say.
127	marginatus Pennant.	165	Pupa contracta Say.
128	ruber Lowe.	166	curvidens Gould.
129	Patella candida Couth.	167	exigua Say.
130	Lottia alveus Gould.	168	fallax Say.
131	testudinalis Gould.	169	milium Gould.
	<i>Patella amana</i> Say.	170	modesta Say.
132	— (sp. ind.)	171	simplex Gould.
133	Dentalium dentale Linn.	172	Tappaniana Ward.
134	Cemoria noachina Gould.	173	Bulimus lubricus Brug.
	<i>Patella noachina</i> Linn.	174	Succinea avara Say.
135	Crepidula convexa Say.	175	campestris Say.
136	fornicata Lam.	176	ovalis Say.
137	glauca Say.	177	Auricula bidentata Gould.
138	plana Say.		<i>Melampus bidentatus</i> Say.
139	Bulla canaliculata Gould.	178	denticulata Gould.
140	debilis Gould.	179	Planorbis armigerus Say.
141	Gouldii Couth.	180	bicarinatus Say.
142	hiemalis Couth.	181	campanulatus Say.
143	insculpta Totten.	182	deflectus Say.
144	lineolata Couth.	183	dilatatus Gould.
145	obstricta Gould.	184	elevatus Ad.
146	oryza Totten.	185	exacutus Say.
147	triticea Couth.	186	hirsutus Gould.
148	Helix albo-labris Say.	187	lentus Say.
149	alternata Say.	188	parvus Say.
	<i>H. scabra</i> Lam.	189	trivolis Say.
150	arborea Say.	190	virens .
151	cellaria Müll.	191	Physa ancillaria Say.
152	chersina Say.	192	elongata Say.
153	electrina Gould.	193	heterostropha Say.
154	hortensis Müll.	194	Limnæa columella Say.
155	subglobosa (var.) Binn.	195	chalybea (var.) Gould.
156	lineata Say.	196	catascopium Say.
157	indentata Say.	197	elodes Say.
158	labyrinthica Say.	198	desidiosus Say.

- | No. | | No. | |
|-----|---|-----|---|
| 199 | Limnæa macrostoma Say.
<i>L. acuminata</i> Ad. | 232 | Margarita undulata Sowb.
<i>Turbo incarnatus</i> Couth. |
| 200 | modicellus Say. | 233 | Littorina palliata Gould.
<i>Turbo palliatus</i> Say. |
| 201 | umbilicata Ad. | 234 | rudis Gould.
<i>Turbo obligatus</i> Say. |
| 202 | Ancylus fuscus Ad. | 235 | tenebrosa Gould.
<i>Turbo vestitus</i> Say. |
| 203 | rivularis Say. | 236 | Lacuna neritoidea Gould. |
| 204 | Valvata pupoidea Gould. | 237 | vincta Gould.
<i>L. pertusa</i> Conr. |
| 205 | tricarinata Say. | 238 | fusca (var.) Ad. |
| 206 | Paludina decisa Say. | 239 | Cingula aculeus Gould.
<i>Turbo aculeus</i> Ad. |
| 207 | Amnicola porata Say. | 240 | minuta Gould.
<i>Turbo minuta</i> Totten. |
| 208 | Natica canaliculata Gould. | 241 | Turritella erosa Couth. |
| 209 | clausa Brod.
<i>N. consolidata</i> Couth. | 242 | interrupta Totten. |
| 210 | duplicata Say. | 243 | Pyramis striatula Couth. |
| 211 | flava Gould. | 244 | Odostomia exigua Gould.
<i>Jamnia exigua</i> Couth. |
| 212 | heros Say. | 245 | fusca Gould. |
| 213 | immaculata Totten. | 246 | producta Gould.
<i>Jamnia producta</i> Ad. |
| 214 | pusilla Say. | 247 | seminuda Gould. |
| 215 | triseriata Say. | 248 | trifida Gould.
<i>Acteon trifidus</i> Totten. |
| 216 | — (sp. ind.) | 249 | Cerithium Emersonii Ad. |
| 217 | Janthina fragilis Brug. | 250 | Greenii Ad. |
| 218 | Velutina lævigata Gould.
<i>V. ruficula</i> Conr. | 251 | nigrocinctum Ad. |
| 219 | zonata Gould. | 252 | terebrale Ad. |
| 220 | Sigaretushaliotoideus Lam.
<i>Oxynoe glabra</i> Couth. | 253 | Sayi Mke.
<i>C. reticulatum</i> Totten. |
| 221 | Tornatilla puncto-striata
Ad. | 254 | Pleurotoma decussata Cth. |
| 222 | Vermetus lumbricalis Lam. | 255 | bicarinata Couth. |
| 223 | Skenea serpuloides Flem.
<i>Delphinula serpuloides</i>
Ad. | 256 | plicata Ad. |
| 224 | Scalaria Grœnlandica Gld.
<i>S. subulata</i> Couth. | 257 | Cancellaria Couthouyi Jay.
<i>C. buccinoïdes</i> Couth. |
| 225 | lineata Say. | 258 | Fusus bamffius Flem. |
| 226 | multistriata Say. | 259 | decemcostatus Say. |
| 227 | nov-angliæ Couth. | 260 | harpularius Couth. |
| 228 | Margarita cinerea Gould.
<i>Turbo cinereus</i> Couth. | 261 | islandicus Mart.
<i>F. corneus</i> Say. |
| 229 | argentea Gould. | 262 | muricatus Brown. |
| 230 | arctica Leach.
<i>Turbo inflatus</i> Totten. | | |
| 231 | obscura Gould.
<i>Turbo obscurus</i> Couth. | | |

No.		No.	
263	<i>Fusus rufus</i> Gould.	277	<i>Buccinum cilliatum</i> Gould.
264	<i>pygmæus</i> (var.) Gould.		<i>B. ventricosum</i> Kien.
265	<i>scalariformis</i> Gould.	278	<i>Donovani</i> Gray.
266	<i>tornatus</i> Gould.	279	<i>lunatum</i> Ad.
267	<i>turricula</i> Flem.	280	<i>obsoletum</i> Ad.
268	<i>ventricosus</i> Gray.	281	<i>plicosum</i> Mke.
269	<i>Pyrula canaliculata</i> Brug.		<i>Fusus cinereus</i> Say.
270	<i>carica</i> Brug.	282	<i>rosaceum</i> Gould.
271	<i>Ranella caudata</i> Say.	283	<i>trivittatum</i> Ad.
272	<i>Rostellaria occidentalis</i>		<i>Nassa trivittata</i> Say.
	Beck.	284	<i>undatum</i> Linn.
273	<i>Trichotropis borealis</i> Sowb.	285	<i>vibex</i> Ad.
	<i>T. costellatus</i> Couth.		<i>Nassa vibex</i> Say.
274	<i>Purpura lapillus</i> Lam.	286	<i>Columbella avara</i> Say.
275	<i>imbricata</i> (var.) Lam.	287	<i>Spirula Peronii</i> Lam.
276	<i>bizonalis</i> (var.) Lam.		

Hubbard.—Catalogue of Terrestrial and Fluviatile Shells of Ohio, in the collection of EBER W. HUBBARD, Elyria, Ohio.

[No descriptions are given.—W. G. B.]

No.		No.	
1	<i>Amnicola Cincinnatiensis</i>	13	<i>Cyclas dubia</i> Say.
	Anth.	14	<i>partumeia</i> Say.
	<i>Paludina Cincinnatiensis</i>		<i>C. cornea</i> (var.) Lam.
2	<i>integra</i> Say. [Anth.	15	<i>similis</i> Say.
	<i>Melania integra</i> Say.		<i>C. sulcata</i> Lam.
3	<i>lapidaria</i> Say.	16	<i>Helix albolabris</i> Say.
	<i>Cyclostoma lapidaria</i> Say.	17	<i>alternata</i> Say.
4	<i>lustrica</i> Say.		<i>H. scabra</i> Lam.
	<i>Paludina lustrica</i> Say.		<i>radiata</i> Gmel.
5	<i>Sayana</i> Anth.	18	<i>appressa</i> Say.
	<i>Cyclostoma Sayana</i> Anth.		<i>H. linguifera</i> Fer.
	<i>Cincinnatiensis</i> Lea.	19	<i>arborea</i> Say.
6	<i>Anculosa costata</i> Anth.	20	<i>clausa</i> Say.
7	<i>isogona</i> Say.		<i>H. Mitchelliana</i> Lea.
	<i>Melania isogona</i> Say.	21	<i>chersina</i> Say.
	<i>Paludina pallida</i> Lea.	22	<i>concava</i> Say.
8	<i>prærorsa</i> Say. [Lea.		<i>H. planorboides</i> Fer.
	<i>Melania Cincinnatiensis</i>		<i>Vancouverensis</i> Lea.
9	<i>Ancylus diaphanus</i> Hald.	23	<i>electrina</i> Gould.
10	<i>rivularis</i> Say.	24	<i>elevata</i> Say.
11	<i>Bulimus lubricus</i> Brug.		<i>H. Knoxvilleana</i> Fer.
12	<i>vermetus</i> Anth.	25	<i>fallax</i> Say.

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|-----|--|-----|--|
| No. | | No. | |
| 26 | Helix fraterna Say.
<i>H. monodon</i> Wood.
<i>convexa</i> Desh. | 49 | Helix suppressa Say. |
| 27 | fuliginosa Griffith.
<i>H. lucubrata</i> Say.
<i>lavigata</i> Fer. | 50 | tridentata Say. |
| 28 | hirsuta Say.
<i>H. fraterna</i> Wood. | 51 | thyroidus Say. |
| 29 | indentata Say. | 52 | zaleta Say. |
| 30 | inflecta Say.
<i>H. clausa</i> Fer. | 53 | Limnea caperata Say. |
| 31 | inornata Say. | 54 | desidiosa Say.
<i>L. curta</i> Lea. |
| 32 | interna Say.
<i>H. pomum Adami</i> Green. | 55 | elodes Say. |
| 33 | intertexta Binney. | 56 | humilis Say. |
| 34 | labyrinthica Say. | 57 | reflexa Say.
<i>L. exilis</i> Lea. |
| 35 | ligera Say.
<i>H. Rafinesquea</i> Fer.
<i>Wardiana</i> Lea. | 58 | jugularis Say.
<i>L. speciosa</i> Rossmasler. |
| 36 | limatula Ward. | 59 | umbrosa Say. |
| 37 | lineata Say. | 59½ | columella Say. |
| 38 | minuscula Binney.
<i>H. minutissima</i> Lea. | 60 | Melania canaliculata Say. |
| 39 | monodon Rack.
<i>H. Leaii</i> Ward. | 61 | conica Say. |
| 40 | multilineata Say. | 62 | depygis Say. |
| 41 | palliata Say.
* <i>H. obstricta</i> Say.
<i>denotata</i> Say.
<i>Carocolla Helicoides</i> Lea.
<i>Carocolla Carolinensis</i> Lea. | 63 | exilis Hald.
<i>M. Kirtlandianus</i> Lea. |
| 42 | Pennsylvanica Green. | 64 | gracilis Anth. |
| 43 | perspectiva Say.
<i>H. parvula</i> Desh. | 65 | Sayii Wood. |
| 44 | profunda Say.
<i>H. Richardi</i> Lam. | 66 | excurata Conr. |
| 45 | pulchella Müll.
<i>H. minuta</i> Say.
<i>paludosa</i> Mont. | 67 | undulata Say. |
| 46 | Sayii Binney.
<i>H. diodonta</i> Say. | 68 | varicosa Ward. |
| 47 | solitaria Say. | 69 | Paludina heterostroph |
| 48 | striatella Anth. | 70 | integra Say. [Kirt. |
| | | 71 | ponderosa Say. |
| | | 72 | subcarinata Say.
<i>P. carinata</i> Valenciennes |
| | | 73 | Physa ancillaria Say.
<i>P. Sayii</i> Tappan. |
| | | 74 | elongata Say. |
| | | 76 | gyrini Say.
<i>P. elliptica</i> Lea. |
| | | 77 | heterostroph Say.
<i>P. aurea</i> Lea. |
| | | 78 | Planorbis armigerus Say. |
| | | 79 | bicarinatus Say. |
| | | 80 | campanulatus Say. |
| | | 81 | concavus Anth. |
| | | 82 | corpulentus Say. |
| | | 83 | deflectus Say. |
| | | 84 | dilatatus Gould.
<i>P. lens</i> Lea. |

No.		No.	
85	Planorbis exacutus Say. <i>Paludina hyalina</i> Lea.		<i>U. ellipticus</i> Barnes. <i>venustus?</i> Lea.
86	lentus Say.	107	Unio cylindricus Say. <i>U. solenoides</i> Raf. <i>naviformis</i> Lam.
87	parvus Say.	108	cyphius Raf. <i>U. asopus</i> Green.
88	trivolis Say.	109	dilatatus Raf. <i>U. gibbosus</i> Barnes. <i>nasutus</i> Lam. <i>arctior</i> Lea.
89	Pupa albilabris Ward. <i>Cyclostoma marginata</i>	110	flavus Raf. <i>U. rubiginosus</i> Lea. <i>trigonus</i> Lea.
90	armifera Say. [Say.	111	fasciolus Raf. <i>U. multiradiatus</i> Lea.
91	contracta Say.	112	fasciolaris Raf. <i>U. phaseolus</i> Hild. <i>planulatus</i> Lea. <i>camelus</i> Lea.
92	corticaria Say.	113	flexuosus Raf. <i>U. foliatus</i> Hild.
93	exigua Say.	114	fragilis Raf. <i>U. gracilis</i> Barnes.
94	modesta Say.	115	fragosus Conr.
95	Succinea campertris Say. <i>S. retusa</i> Lea.	116	gibbosus Raf. <i>U. torulosus</i> Raf. <i>perplexus</i> Lea. <i>Rangianus</i> Lea. <i>capsaeformis</i> Lea.
96	avara Say.	117	heros Say. <i>U. undulatus</i> Say. <i>multiplicatus</i> Lea.
97	ovalis Say.	118	lapillus Say. <i>U. fabalis</i> Lea. <i>Troostensis</i> Lea.
98	Valvata sincera Say.	119	leptodon Raf. <i>U. planus</i> Barnes. <i>velum</i> Say. <i>purpurascens</i> Swains. <i>tenissimus</i> Lea.
99	tricarinata Say. <i>V. bicarinata</i> Lea.	120	lineolatus Raf. <i>U. depressus</i> Raf. <i>securis</i> Lea.
100	Unio alasmodontinus Barn. <i>U. compressus</i> Lea.		
101	alatus Say. <i>U. megapterus</i> Raf.		
102	bullatus Raf. <i>U. prasinus</i> Conr. <i>Schoolcraftensis</i> Lea. <i>pustulosus</i> Lea. <i>Dorfeuillanus</i> Lea.		
103	cardium Raf. <i>U. ventricosus</i> Barnes. <i>occidens</i> Lea. <i>sub-ovatus</i> Lea. <i>dolabræformis</i> Lea.		
104	cicatricosus Say. <i>U. varicosus</i> Lea.		
105	cuneatus Raf. <i>U. modioliformis</i> Say. <i>scalentus</i> Raf. <i>patulus</i> Lea. <i>decisus?</i> Lea.		
106	crassus Say. <i>U. ellipsarius</i> Raf. <i>fasciatus</i> Raf. <i>ligamentina</i> Lam. <i>carinatus</i> Barnes.		

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|------|---|-----|--|
| No. | | No. | |
| 121 | Unio metanevrus Raf.
<i>U. nodosus</i> Barnes. | 136 | Unio politus Say.
<i>U. subrotundus</i> Lea.
<i>Kirtlandianus</i> Lea. |
| 122 | monodontus Say.
<i>U. soleniformis</i> Lea. | 137 | quadrulus Raf.
<i>U. rugosus</i> Barnes.
<i>lachrymosus</i> Lea.
<i>asperrimus</i> Lea. |
| 123 | mytiloides Raf.
<i>U. cordatus</i> Raf.
<i>undatus</i> Barnes.
<i>pyramidatus</i> Lea.
<i>solidus</i> Lea. | 138 | rubrum Raf.
<i>U. coccineus</i> Hild.
<i>Gouldianus</i> Ward.
<i>catillus</i> Conr. |
| 124 | nasutus Say.
<i>U. rostratus</i> Val.
<i>Vaughanianus</i> ? Lea. | 139 | reflexus Raf.
<i>U. cornutus</i> Barnes. |
| 125 | nervosus Raf.
<i>U. donaciformis</i> Lea.
<i>zig-zag</i> Lea. | 140 | rectus Lam.
<i>U. latissimus</i> Raf.
<i>prolongus</i> Barnes. |
| 126 | nigrum Raf.
<i>U. cuneatus</i> Barnes.
<i>gibber</i> Lea. | 141 | Sayii Ward. |
| 127 | nodulatus Raf.
<i>U. pustulatus</i> Lea. | 142 | siliquoides Barnes.
<i>U. inflatus</i> Barnes.
<i>Hydianus</i> Lea. |
| 128 | obliquatus Raf.
<i>U. sulcatus</i> Lea.
<i>ridibundus</i> Say. | 143 | stegarius Raf.
<i>U. irroratus</i> Lea. |
| 129 | obovalis Raf.
<i>U. ebenus</i> Lea. | 144 | striatus Raf.
<i>U. Cooperianus</i> Lea. |
| 130 | Ohioensis Raf.
<i>U. levissimus</i> Lea.
<i>inflatus</i> Lea. | 145 | subrostratus Say.
<i>U. iris</i> Lea. |
| 131 | olivarius Raf.
<i>U. ellipsis</i> Lea. | 146 | subrotundus Raf.
<i>U. circulus</i> Lea.
<i>lens</i> Lea. |
| 132 | orbiculatus Hild.
<i>U. abruptus</i> Say. | 147 | teres Raf.
<i>U. anodontoides</i> Lea. |
| 133 | ovatus Say.
<i>U. globosus</i> Lea.
<i>capax</i> Green. | 148 | torsus Raf. |
| 134 | parvus Barnes. | 149 | triquetrus Raf.
<i>U. cuneatus</i> Swains.
<i>triangularis</i> Barnes.
<i>formosus</i> Lea. |
| 134½ | personatus Say.
<i>U. pileus</i> Lea.
<i>plenus</i> Lea.
<i>Sowerbianus</i> Lea. | 150 | truncatus Raf.
<i>U. elegans</i> Lea. |
| 135 | plicatus Say.
<i>U. rariplicatus</i> Lam.
<i>costatus</i> Raf.
<i>Peruvianus</i> Lam. | 151 | tuberculatus Raf.
<i>U. tuberculosus</i> Val.
<i>verrucosus</i> Barnes.
<i>graniferus</i> Lea. |
| | | 152 | undulatus Barnes. |
| | | 153 | verrucosus Raf.
<i>U. tuberculatus</i> Barnes. |

No.		No.	
154	Anodonta cataracta Say. <i>A. exilis</i> Lea. <i>salmonca</i> Lea. <i>Pepiniana</i> Lea.	158½	Alasmodonta ambigua Say. <i>Unio Hildrethianus</i> Lea.
155	Ferrusaciana Lea.	159	calceola Lea. <i>A. deltoidea</i> Lea.
156	grandis Say. <i>A. plana</i> Lea. <i>decora</i> Lea. <i>gigantea</i> Lea.	160	complanata Barnes.
157	imbecillis Say. <i>A. incerta</i> Lea.	161	costata Raf. <i>A. rugosa</i> Barnes.
158	lata Raf. <i>Unio dehiscens</i> Say. <i>oriens</i> Lea.	162	edentula Say. <i>Anodonta undulata</i> Say. <i>areolata</i> ? Sw. <i>rugosa</i> ? Swains. <i>Wardiana</i> Lea. <i>pavonia</i> Lea. <i>Buchanensis</i> Lea.
		163	truncata Say.

Say, Conrad, Toumey, Holmes, Morton, &c.—

In the various publications which have appeared on the fossil Shells of America will be found information regarding many species supposed to be identical with recent species.

Mrs. Sheppard, of Woodfield, on the recent Shells which characterize Quebec and its environs. (From Transactions of the Literary and Historical Society of Quebec, vol. i, p. 188. Quebec, 1829.)

[Descriptions of genera and species are given.—W. G. B.]

Page.		Page.	
189	Solen ———.	195	Planorbis spirorbis.
190	Mya arenaria.	195	<i>alba</i> ?
190	Venus mercenaria.		<i>Helix alba</i> Linn.
191	Unio sinuata.	195	————.
191	<i>radiata.</i>	195	Physa fontinalis.
191	<i>nanca.</i>	195	<i>subopaca.</i>
192	Modiola plicatula.	196	Lymnæa stagnalis.
192	Mytelus borealis.	196	<i>palustris.</i>
192	Ostrea canadensis.	196	Paludina ———.
193	Crepidula fornicata.	196	————.
193	Helix hortensis.	197	Natica magdalena.
194	————.	197	Buccinum ———.
194	Carocolla dubia.	198	————.
194	Succinea amphibia.		

Rafinesque.—I have been unable to obtain access to two works of this author, in both of which occur descriptions of Mollusca.

Rafinesque.—*Journal Encyclopedique de la Sicile.*

Rafinesque.—*Analyse de la Nature, ou Tableau de l'Univers et des corps organisés. Palerme, 1825.*

Jarvis, J.—On the Tereido, or salt-water worm. (In *Proc. Nat. Inst. Washington, New Series*, vol. i, No. 2, 1856, pp. 60-67.)

D'Urban.—Catalogue of Animals and Plants collected and observed in the valley of the River Rouge and the neighboring townships, in the counties of Argenteuil and Ottawa: by Mr. W. S. M. D'URBAN, Assistant to Sir William Logan, in 1858. (From the Geological Survey of Canada. Report of Progress for the year 1858. Montreal, 1859.)

[Localities, but no descriptions, are given.—W. G. B.]

Page.		Page.	
241	Tebennophorus Caroli- nensis <i>Bosc.</i>	241	Vertigo Gouldii <i>Binney.</i>
241	Succinea obliqua <i>Say.</i>	241	Pupa ———.
241	Helix albolabris <i>Say.</i>	241	Carychium exiguum <i>Say.</i>
241	exoleta <i>Binney.</i>	241	Physa heterostropha <i>Say.</i>
241	monodon <i>Rack.</i>	241	aurea <i>Lea.</i>
241	concava <i>Say.</i>	242	elliptica <i>Lea.</i>
241	pulchella <i>Müll.</i>	242	elongata <i>Say.</i>
241	Sayii <i>Binney.</i>	242	Limnæa exigua <i>Lea.</i>
241	labyrinthica <i>Say.</i>	242	galbanus <i>Say.</i>
241	alternata <i>Say.</i>	242	plicata <i>Lea.</i>
241	striatella <i>Anth.</i>	242	reflexa <i>Say.</i>
241	arborea <i>Say.</i>	242	umbilicata <i>Say.</i>
241	chersina <i>Say.</i>	242	Planorbis trivolvus <i>Say.</i>
241	lineata <i>Say.</i>	242	bicarinatus <i>Say.</i>
241	Bulimus marginatus <i>Say.</i>	242	campanulatus <i>Say.</i>
241	Achatina lubrica <i>Müll.</i>	242	parvus <i>Say.</i>
		242	deflectus <i>Say.</i>

Page.		Page.	
242	<i>Paludina decisa</i> Say.	243	<i>Anodonta fragilis</i> Linn.
242	<i>Valvata tricarinata</i> Say.	243	<i>Footiana</i> Lea.
242	<i>Unio complanatus</i> Lea.	243	<i>Cyclas similis</i> Say.
242	<i>Margaritana rugosa</i> Barnes.	243	<i>partumeia</i> ? Say.
242	<i>Anodonta cygnea</i> ? Linn.	243	<i>dubia</i> ? Say.
243	<i>edentula</i> Say.		

Bell.—Catalogue of Animals and Plants collected and observed on the southeast side of the St. Lawrence, from Quebec to Gaspé, and in the counties of Rimouski, Gaspé and Bonaventure: by Mr. ROBERT BELL, Jr., Assistant to Mr. James Richardson, Geological Explorer under Sir William Logan, in 1858. (From same as last, p. 243.)

Page.		Page.	
251	<i>Helix alternata</i> Say.	252	<i>Limnæa catascopium</i> Say.
251	<i>albolabris</i> Say.	252	<i>apacina</i> Lea.
251	<i>monodon</i> Rack.	252	<i>acuta</i> Lea.
251	<i>Sayii</i> Binney.	252	<i>umbilicata</i> Say.
251	<i>concava</i> Say.	252	<i>reflexa</i> Say.
251	<i>hortensis</i> Müll.	252	<i>pallida</i> Ad.
251	<i>arborea</i> Say.	252	<i>modicella</i> Say.
251	<i>striatella</i> Anth.	252	<i>parva</i> Lea.
251	<i>lineata</i> Say.	252	<i>decollata</i> Say.
251	<i>labyrinthica</i> Say.	252	<i>alternata</i> .
252	<i>pulchella</i> Müll.	253	<i>Planorbis trivolvis</i> Say.
252	<i>asteriscus</i> Morse.	253	<i>campanulatus</i> Say.
252	<i>chersina</i> Say.	253	<i>bicarinatus</i> Say.
252	—.	253	<i>parvus</i> Say.
252	<i>Succinea avara</i> Say.	253	<i>deflectus</i> Say.
252	<i>ovalis</i> Gould.	253	<i>Amnicola porata</i> Say.
252	<i>obliqua</i> Say.	253	<i>Valvata tricarinata</i> Say.
252	<i>Achatina lubrica</i> Müll.	253	<i>humeralis</i> Say.
252	<i>Bulimus harpa</i> Say.	253	<i>sincera</i> Say.
252	<i>Vitrina pellucida</i> Dr. [Gld.	253	<i>Fusus scalariformis</i> Gould.
252	<i>Pupa (Vertigo) simplex</i>	253	<i>gracilis</i> Alder.
252	<i>Physa heterostrophia</i> Say.	253	<i>tornatus</i> Gould.
252	<i>aurea</i> Lea.	253	<i>decemcostatus</i> Say.
252	<i>elongata</i> Say.	253	<i>rufus</i> Gould.
252	<i>ancillaria</i> Say.	253	<i>Bamffius</i> Flem.
252	<i>marginata</i> Say.	253	<i>Bela cancellata</i> M. & A.
252	<i>Limnæa stagnalis</i> Linn.	253	<i>Pleurotoma bicarinata</i> ? Couth.
252	<i>caperata</i> Say.		
252	<i>umbrosa</i> Say.	253	<i>Buccinum undatum</i> L.

Page.		Page.	
253	<i>Buccinum Donovanii</i> Gray.	254	<i>Solen ensis</i> Linn.
253	<i>Nassa trivittata</i> Say.	254	<i>Tellina proxima</i> Brown.
253	<i>obsoleta</i> Say.	254	<i>Grœnlandica</i> Beck.
253	<i>Purpura lapillus</i> Lam.	254	<i>Mactra ovalis</i> Gould.
253	<i>Trichotropis borealis</i> Sowb.	254	<i>Mesodesma arctatum</i> Gld.
253	<i>Velutina haliotoides</i> Müll.	254	<i>Venus gemma</i> Totten.
253	<i>Lamellaria perspicua</i> Loven.	254	<i>Aphrodite Grœnlandica</i> St.
253	<i>Natica heros</i> Say.	254	<i>Cardium Islandicum</i> Linn.
	<i>N. ampullaria</i> Lam.	254	<i>Cardita borealis</i> Conr.
253	<i>clausa</i> Br. & Sowb.	254	<i>Astarte sulcata</i> Costa.
253	<i>triseriata</i> Say.	254	<i>elliptica</i> Brown.
253	<i>flava</i> Gould?	254	<i>compressa</i> Mont.
253	<i>helicoides</i> Johnston.	254	<i>Lucina flexuosa</i> Gould.
253	<i>Chemnitzia</i> ———.	254	<i>Lima subauriculata</i> Mont.
253	<i>Aphorhais occidentalis</i>	254	<i>Mytilus edulis</i> Linn.
253	<i>Rissoa minuta</i> St. [Gould.	255	<i>Modiola discors</i> Linn.
253	<i>Lacuna vineta</i> Turt.	255	<i>plicatula</i> Lam.
253	<i>Littorina littoralis</i> F. & H.	255	<i>glandula</i> Totten.
	<i>L. palliata</i> Gould.	255	<i>pectinula</i> Gould.
254	<i>rudis</i> Gould.	255	<i>nexa</i> Gould.
	<i>L. tenebrosa</i> Gould.	255	<i>Nucula myalis</i> Couth.
254	<i>Margarita cinerea</i> Gould.	255	<i>tenuis</i> Turt.
254	<i>undulata</i> Sowb.	255	<i>Pecten Magellanicus</i> Lam.
254	<i>helicina</i> Müll.	255	<i>Islandicus</i> Müll.
254	<i>Skenea costulata</i> F. & H.	255	<i>Anomia ephippium</i> Linn.
254	<i>Diadora Noachina</i> Gray.	255	<i>Unio complanatus</i> Lea.
254	<i>Crepidula fornicata</i> Lam.	255	<i>Margaritana arcuata</i> Barnes.
254	<i>Acmaea testudinalis</i> Hanl.	255	<i>Anodonta subcylindracea</i>
254	<i>cœca</i> .	255	———— [Lea.
254	<i>Chiton marmoreus</i> Fabr.	255	<i>edentula</i> Say.
254	<i>Pholas crispata</i> Linn.	255	<i>fragilis</i> Lam.
254	<i>Saxicava rugosa</i> Lam.	255	<i>implicata</i> Say.
254	<i>Mya arenaria</i> Linn.	255	<i>Cyclas similis</i> Say.
254	<i>truncata</i> Linn.	255	<i>dubia</i> ? Say.
254	<i>Glycimeris siliqua</i> Lam.	255	————.
254	<i>Osteodesma hyalina</i> Couth.	255	<i>Hippothyris psittacea</i> King.
254	<i>Machæra costata</i> Gould.		

Russell.—Retrospect of some of the Shells found in Essex County: by Rev. JOHN LEWIS RUSSELL. (From Journal of the Essex County Natural History Society. Third and last number. Salem, Mass., 1852.)

[No descriptions are given.—W. G. B.]

Page.		Page.	
110	<i>Anodon fluviatilis</i> Lca.	112	<i>Mesodesma arctata</i> .
110	<i>implicatus</i> Say.	112	<i>Modiola discrepans</i> Mont.
111	<i>Astarte castanea</i> Say.	112	<i>modiolus</i> Turt.
111	<i>Anomia ephippium</i> Linn.	112	<i>plicatula</i> Lam.
111	<i>Ancylus rivularis</i> Say.	112	<i>Mytilus edulis</i> Linn.
111	<i>Auricula bidentata</i> .		<i>M. pellucidus</i> Penn.
111	<i>Buccinum obsoletum</i> Ad.	112	<i>pellucidus</i> .
111	<i>plicosum</i> Mke.	112	<i>Mya arenaria</i> Linn.
111	<i>trivittatum</i> Ad.	112	<i>Natica clausa</i> Br. & Sowb.
111	<i>undatum</i> Linn.	112	<i>heros</i> Say.
111	<i>Bulla triticea</i> Couth.	112	<i>triseriata</i> Say.
111	<i>Cancellaria Couthouyi</i> Jay.	112	<i>Nucula limatula</i> Say.
111	<i>Cardium pinnatulum</i> Conr.	112	<i>minuta</i> Turt.
111	<i>Crepidula fornicata</i> Lam.	112	<i>myalis</i> Couth.
111	<i>plana</i> Say.	112	<i>Pandora trilineata</i> Say.
111	<i>Chiton fulminatus</i> Couth.	112	<i>Pecten magellanicus</i> Lam.
111	<i>Cingula minuta</i> .	112	<i>Petricola pholadiformis</i>
111	<i>Cochlodesma Leana</i> Conr.	112	<i>Pholas crispata</i> Linn. [Lam.
111	<i>Cumingia tellinoides</i> Conr.		<i>P. lamellata</i> Turt.
111	<i>Cyprina islandica</i> Lam.	112	<i>Purpura lapillus</i> Lam.
111	<i>Fusus decemcostatus</i> Say.		<i>P. imbricata</i> .
111	<i>islandicus</i> Mart.	112	<i>Pyramis striatula</i> Couth.
111	<i>harpularius</i> Couth.	112	<i>Rostellaria occidentalis</i>
111	<i>Glycimeris siliqua</i> Lam.		Beck.
111	<i>Lacuna vineta</i> .	112	<i>Sanguinolaria fusca</i> Conr.
111	<i>Littorina palliata</i> .	112	<i>sordida</i> Couth.
111	<i>rudis</i> .	112	<i>Saxicava distorta</i> Say.
111	<i>tenebrosa</i> .	112	<i>Scalaria Grænlandica</i> Chem.
111	<i>Lottia alveus</i> .	112	<i>Solen ensis</i> Linn.
111	<i>testudinalis</i> .	113	<i>Solemya velum</i> Say.
111	<i>Machæra costata</i> .	113	<i>Thracia Conradi</i> Couth.
111	<i>Maetra solidissima</i> Chemn.	113	<i>Tellina polita</i> Say.
111	<i>Margarita arctica</i> Leach.	113	<i>tenera</i> Say.
111	<i>cinerea</i> .	113	<i>Terebratula caput-ser-</i>
112	<i>obscura</i> .		<i>pentis</i> Lam.
112	<i>undulata</i> Sowb.	113	<i>Teredo navalis</i> Linn.

Page.		Page.	
113	Trichotropis borealis Sowb.	113	Venus gemma Totten.
	<i>T. costellatus</i> Couth.	113	mercenaria Linn.
113	Turritella erosa Couth.	113	Velutina lævigata.
113	Unio complanatus Lea.		<i>V. rupicola</i> Conr. not
113	nasutus Say.		<i>Oryxoe glabra.</i>
113	radiatus Barnes.		

Russell.—Conspectus of Shells found in Essex County, &c. :
by J. H. RUSSELL. (From same as last, p. 126.)

[No descriptions are given.—W. G. B.]

Page.		Page.	
127	Adeorbis costulata St.	129	var. pygmæus Gould.
127	Amicula vestita St.		<i>Trytonium pygmæum</i> St.
	<i>Chiton Emersonii</i> Couth.	129	Helix albolabris Gould.
127	Ancylus fuscus Ad.	129	alternata Gould.
127	Anodon implicata Gould.	129	arborea Gould.
128	Anomia ephippium Linn.	129	electrina Gould.
128	var. aculeata.	129	exigua Gould.
128	squamula.	129	hortensis Gould.
128	Astarte castanea Gould.		<i>Helix subglobosa</i> Binney.
128	quadrans Gould.	129	indentata Gould.
128	sulcata Gould.	129	labyrinthica Gould.
128	Buccinum plicosum Gould.	129	lineata Gould.
128	undatum Linn.	129	minuscula Gould.
128	Bulimus lubricus Gould.	129	pulchella Gould.
128	Bulla punctostriata St.	129	chersina Gould.
128	triticea Gould.	129	—.
128	Cemoria Noachina Gould.	130	Kellia rubra Gould.
128	Chiton albus Gould.	130	Leda limatula St.
128	marginatus Gould.	130	myalis St.
128	ruber Gould.		<i>Nucula myalis</i> Gould.
128	Cingula minuta Gould.	130	sapotilla St.
128	Cochloidesma Leana Couth.		<i>Nucula sapotilla</i> Gould.
	<i>Anatina Leana</i> Conr.	130	Ancylus fuscus Gould.
128	Columbella Gouldiana ? St.	130	Limnæa columella Gould.
129	Cumingia tellinoides Gould.	130	elodes Gould.
129	Cyclas dubia Gould.	130	macrostoma Gould.
129	partumeia Gould.	130	modicellus Gould.
129	Dentalium dentale Gould.	130	umbilicata Gould.
129	Fusus decemcostatus Gld.	130	Planorbis armigerus Gould.
129	harpularius Gould.	130	bicarinatus Gould.
129	islandicus Gould.	130	campanulatus Gould.
	<i>Tritonium islandicum</i>	130	deflectus Gould.
	Loven.	130	exacutus Gould.

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130	Planorbis elevatus Gould.	131	Pecten Magellanicus Gld.
130	<i>hirsutus</i> Gould.	131	Philine formosa St.
130	<i>lentus</i> Gould.	131	Pleurotoma bicarinata Gld.
130	Physa ancillaria Gould.	132	<i>violacea</i> St.
130	<i>elongata</i> Gould.	132	Pupa curvidens Gould.
130	<i>heterostropha</i> Gould.	132	Rissoa eburnea St.
130	Lucina radula Gould.	132	<i>multilineata</i> St.
131	Mactra lateralis Gould.	132	<i>pelagica</i> St. [Migh.
131	Margarita arctica Gould.		<i>Cingula semicostata</i>
131	<i>argentina</i> Gould.	132	Scalaria Grœnlandica Gld.
131	<i>obscura</i> Gould.	132	<i>Novangliæ</i> Couth.
131	<i>undulata</i> Gould.	132	Solemya velum Gould.
131	Menestho albula St.	132	Solen ensis Linn.
	<i>Pyramis striatula</i> Couth.	132	Succinea campestris Gould.
131	Mesodesma arcata Gould.	132	<i>ovalis</i> Gould.
131	Nassa trivittata Say.	132	Terebratula septen-
	<i>Buccinum trivittatum</i>		<i>trionalis</i> Gould.
131	Natica flava Gould. [Gould.	132	Teredo dilatata St.
131	<i>immaculata</i> Gould.	132	Thracia truncata Migh.
131	<i>pusilla</i> Gould. [Migh.	133	Turritella acicula St.
131	Nucula delphinodonta	133	<i>areolata</i> St.
131	Osteodesma Hyalina Gould.	133	Velutina haliotoides Möll.
131	Paludina decisa Gould.	133	<i>zonata</i> Gould.
131	Pandora trilineata Gould.		

Shumard.—A Catalogue of the fluviatile Shells belonging to the family of Naiades of Jefferson County, Kentucky: by B. F. SHUMARD, M. D., Louisville, Kentucky. (From the Naturalist, and Journal of Agriculture, Horticulture, Education and Literature, &c., at Franklin College, Tennessee, vol. i, No. 3. March, 1846.)

[The title of this catalogue was given by me on p. 427. Since the printing of that page I have received the work, through the kindness of J. G. Anthony, Esq. No descriptions are given.—W. G. B.]

Page.		Page.	
105	Unio alatus Say.	105	Unio bullatus Raf.
	<i>U. megapterus</i> Raf.		<i>U. verrucosus albus</i> Say.
105	asperimus Lea.		<i>pustulosus</i> Lea.
	<i>U. lachrymosus</i> Lea.		<i>Dorfeuillanus</i> Lea.
	<i>quadrulus</i> Say.		<i>prasinus</i> Contr.
105	anodontoides Lea.	105	cardium Raf.
	<i>U. teres</i> Raf.		<i>U. suboratus</i> Lea.
	<i>teres</i> Contr.		<i>ventricosus</i> Barnes.

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105	Unio cicatricosus Say. <i>U. varicosus</i> Lea.	105	Unio rubiginosus Lea.
105	cyphius Raf. <i>U. Esopus</i> Green.	105	rectus Lam. <i>U. praelongus</i> Bar.
105	clavus Lam. <i>U. scalenia</i> Raf. <i>modioliformis</i> Say.	106	cornutus Bar. <i>U. reflexus</i> Raf.
105	crassus Say. <i>U. ellipticus</i> Bar. <i>carinatus</i> Bar.	106	dilatatus Raf. & Conr. <i>U. gibbosus</i> Bar. <i>arctior</i> Lea. <i>nasutus</i> Lam.
105	cylindricus Say. <i>U. solenoides</i> Raf. <i>naviformis</i> Lam.	106	ebenus Lea. <i>U. mytiloides</i> Conr.
105	crassidens Lam. <i>U. cuneatus</i> Bar. <i>niger?</i> Raf. <i>soleniformis</i> Lea.	106	elegans Lea.
105	multiplicatus Lea. <i>U. heros</i> Say. <i>undulatus</i> Say.	106	foliatus Hild. <i>U. flexuosus</i> Raf.
105	nodulatus Raf. <i>U. pustulatus</i> Lea.	106	fabalis Lea. <i>U. lapillus</i> Say.
105	occidens Lea. <i>U. ventricosus</i> Say.	106	gracilis Bar. <i>U. fragilis</i> Swains.
105	Ohioensis Raf. <i>U. levissimus</i> Lea.	106	glans Lea.
105	ovatus Say. <i>U. globosus</i> Lea. <i>capax</i> Green.	106	iris Lea. <i>U. subrostratus</i> Bar.
105	olivarius Raf. <i>U. ellipsis</i> Lea.	106	irroratus Lea. <i>U. verrucosus albus</i> Hild.
105	orbiculatus Hild. <i>U. abruptus</i> Say. <i>crassus</i> Conr.	106	metanever Lea. <i>U. nodosus</i> Barnes.
105	phaseolus Hild. <i>U. planulatus</i> Lea. <i>cuneatus</i> Bar.	106	monodoutus Say. <i>U. latissimus</i> Raf.
105	perplexus Lea. <i>U. gibbosus</i> Conr.	106	siliquoideus Bar. <i>U. inflatus</i> Bar.
105	Sayii Ward.	106	pyramidatus Lea.
105	plicatus Less. <i>U. rariplicata</i> Lam. <i>Peruvianus</i> Lam. <i>costatus</i> Raf.	106	subrotundus Raf. <i>U. circulus</i> Lea.
105	parvus Bar.	106	sulcatus Lea. <i>U. ridibundus</i> Say.
		106	securis Lea. <i>U. depressa</i> Raf.
		106	tenuissimus Lea. <i>U. velum</i> Say. <i>Anodonta purpurascens</i>
		106	torsus Raf. [Swains.
		106	triangularis Bar. <i>U. formosus</i> Lea. <i>cuneatus</i> Swains.
		106	tuberculatus Bar.

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106	Unio verrucosus Bar.	106	Anodonta plana Lea.
	<i>U. tuberculatus</i> Raf.		<i>A. declivis</i> Conr.
	<i>verrucosus purpureus</i>	106	Ferussaciana Lea.
106	zig-zag Lea. [Hild.	106	exilis Lea.
106	Alasmodonta complanata		<i>A. salmonea</i> Lea.
	[Bar.	106	imbecilis Say.
106	calceola Lea.		<i>A. incerta</i> Lea.
	<i>Margaritana deltoidea</i>	106	lata Raf.
106	rugosa Bar. [Lea.		<i>Unio dehiscentis</i> Say.
	<i>A. abducta</i> Say.		<i>A. oriens</i> Lea.
106	Anodonta grandis Say.		
	<i>A. corpulenta</i> Cooper.		

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From Silliman's American Journal of Science, 64.

TAYLOR, W. J.

From Silliman's American Journal of Science, 335.

THOMAS, W. H. B.

From the Proceedings of the American Association for the Advancement of Science, 336.

THOMSON, B.

New England's Crisis, 426.

TOTTEN, J. G.

From Silliman's American Journal of Science, 22, 38.

From Hitchcock's Geological Report, 45.

TRASK, J. B.

From the Proceedings of the California Academy of Natural Sciences, 243.

TROOST, G.

From the Geological Report of Tennessee, 123.

TRUE, J.

From the Proceedings of the Essex Institute, 253.

TUFTS, S., JR.

From the Catalogue of the Massachusetts State Cabinet, 297.

From the Proceedings of the Essex Institute, 407.

WAILLES, B. L. C.

From the Geological Report of Mississippi, 240.

WARE, J.

From the Boston Journal of Philosophy and the Arts, 484.

WARREN, J.

The Conchologist, 324.

WARREN, J. C.

From the Proceedings of the Boston Society of Natural History, 543.

WEINLAND, D. F.

From the Proceedings of the Boston Society of Natural History, 370, 371.

WESTERN ACADEMY OF NATURAL SCIENCES.

Catalogue of Unios, &c., 156.

WHEATLEY, C. M.

Catalogue of the Shells of the United States, &c., 129.

WHITEMORE, T. J.

From Silliman's American Journal of Science, 73, 319.

From the Proceedings of the Boston Society of Natural History, 365,
368, 371.

WOOD, W.

New England's Prospect, &c., 426.

WYATT, T.

A Manual of Conchology, 324.

A Synopsis of Natural History, 607.

WYMAN, J.

From the Proceedings of the Boston Society of Natural History, 359.

From the Boston Journal of Natural History, 353.

E R R A T A .

The following errata and addenda should be entered on their respective pages of the Bibliography :—

Page 1. The folio of the left hand column refers to Rafinesque's extra copies of the "Monographie." Page 25 corresponds with p. 291 of the original paper in the "Annales."

Page 4, line 14. After **Tremisia patelloides** read *Notrema*.

" 4, line 25. Add See also page 546.

" 5, line 3 from bottom, add *Decurambis litterata* Raf.

" 8, line 11. The paper of Coates will also be found in the Ann. of Phil. x, 385; Bull. Sc. Nat. vii, 259 (1826); Fror. Not. Bd. 12, 295 (1826).

Page 40, line 10. *Astarte castanea* in the first edition is given as a synonym of **Crassina Danmoniensis**, omitted in this edition.

Page 53. Note. See also p. 419.

" 64. For Couthouy's paper, see also p. 487.

" 64. For Jay's paper, see also p. 486.

" 74. The date is probably 1842.

" 123, line 3 from bottom of left hand column, add p. 40 **Unio crieridens** Lea.

Page 129. The first edition of Wheatley's Catalogue was published in 1842.

Page 230. For Lea's Synopsis, see also p. 52.

" 254. The Land Shells of Say were published separately in 1856 with the title of "Descriptions of Terrestrial Shells of North America."

Page 262, line 1, for September read May.

" 274, line 4, add See also p. 605.

" 319, line 1, for W. Whittemore read T. W. Whittemore.

" 319. Agassiz and Gould's Principles were republished in 1851.

" 327. For Conrad's paper, see also p. 404.

" 327. For Leidy's paper, see also Silliman's Am. Journ. [2] iii, 434.

" 333. Date of Haldeman's Monograph is said to be 1847.

" 334, after line 36, add *L. solida* Lea = **Melania**.

" 339, line 3, for November read July.

" 341, line 2 from bottom, add See also note on p. 101.

" 348, line 28, for 1841 read 1840.

" 350, line 22, for 108 read 308.

" 357, for foreign species of Bost. Proc. see p. 530.

" 359, line 15, for 137 read 138.

" 361, after line 9, add ii, 160 **Crepidula nummaria** Gould. Classet.

" 371, line 10. A figure of **Cochliolepis** is given.

" 371, line 21, for September read November.

Page 371. *For the foreign species in the Proc. Phila. Acad., see p. 551.*

" 372, line 26, *for November, 1842, read December, 1842.*

" 372, line 27, *for March, 1853, read March, 1843.*

" 373. *For Leidy's paper first quoted, see also Fror. Not. 3 Reihe, Bd. 4, No. 68, 1847, p. 24, and Journ. de Conch. i, 1850, p. 34.*

Page 374, line 32, *for 58 read 57.*

" 386. *For foreign species in Phila. Proc., see p. 556.*

" 404, line 2, *add see also p. 560.*

" 404, line last, *add see also p. 327.*

" 405, line 2, *add see also p. 520.*

" 417, line 8, *add see also p. 504.*

" 422, line 2, *add see also p. 525.*

" 427, line 4, *add see also p. 631.*

" 427, line 4, *for 1856 read 1846.*

" 427. Cooper's paper should not have been quoted here, its date being 1860.

Page 427, line 26, *add Banks of the Ohio.*

" 429, line 7, *for 1841 read 1851.*

" 433, line 6, *add see also p. 547.*

" 436, line 12 from bottom, *see also Faunus von Gistl. Bd. i, Hft. 1, 1837, p. 42.*

Page 451, line 8. The title in the Transactions is "Descriptions of new species of the family Unionidæ."

Page 477, line 26, *for Crypogenia read Cyprogenia.*

" 486, line 13 from bottom, *add see p. 64.*

" 490, line 4, *add Adams.*

" 499, line 24, *for 100 read 101.*

" 500, line 21, *for 187 read 189.*

" 501, line 13. The quotations from p. 215 to 233 on the next page are by Bland.

Page 502, line 11 from bottom. The quotations from p. 233 are to be attributed to Adams.

Page 502, line 3 from bottom. The quotations are by Bland.

" 503. The first title is by Adams.

" 525, line 2, *add see also p. 422.*

" 526, line 2, *add see also p. 343.*

" 530, line 2, *add see also p. 357.*

" 531, lines 6, 7, 8, *for 160 read 161; their date is also May, 1844.*

" 550, line 14 from bottom, after Vol. ii, *add Part 2.*

" 551, line 10 from bottom, *add see also p. 371.*

" 552, line 16, *add see also Proc. vi, 435. Nov. 1853.*

" 552, line 26, *add see also p. 606 of Bibliography.*

" 556, line 3 from bottom, *add see also p. 386.*

" 565, before line 13 from bottom, *add No. ix, May, 1851.*

" 581. Redfield's paper, *add June, 1852.*

" 583, before page 297, *add July, 1852.*

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

CATALOGUE

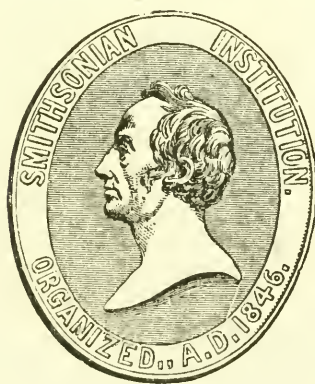
OF

PUBLICATIONS

OF THE

SMITHSONIAN INSTITUTION.

CORRECTED TO JUNE, 1862.



WASHINGTON:
SMITHSONIAN INSTITUTION.

JUNE, 1862.

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ADVERTISEMENT.

THE present catalogue is intended to embrace all the articles published by the Smithsonian Institution since its organization in 1846. For the first few years nothing was issued but pamphlets explanatory of the plan of the Institution, and brief annual reports of the proceedings of the Regents, and it was not until after 1849 that the following regular series were established, viz:—

1st. A quarto series entitled "Smithsonian Contributions to Knowledge," issued in volumes, each embracing one or more separate articles.

2d. An octavo series, entitled "Smithsonian Miscellaneous Collections."

3d. Another octavo series, consisting of the Annual Reports of the Institution to Congress, called "Smithsonian Reports," and printed at the expense of the government.

The Smithsonian Contributions to Knowledge include memoirs embracing the records of extended original investigations and researches resulting in what are believed to be new truths, and constituting positive additions to the sum of human knowledge. The series of Smithsonian Miscellaneous Collections is designed to contain reports on the present state of our knowledge of particular branches of science; instructions for collecting and digesting facts and materials for research; lists and synopses of species of the organic and inorganic world; museum catalogues; reports of explorations; aids to bibliographical investigations, etc., generally prepared at the express request of the Institution, and at its expense. The position of a work in one or the other of these two series will sometimes depend upon whether the required illustrations can be presented more conveniently in the quarto or the octavo form.

The Annual Reports are presented to Congress, and printed at its expense, copies being given to the Institution. They consist of the reports of the Secretary to the Board of Regents of the operations and condition of the Institution; the reports of committees of the Board; abstracts of lectures delivered before the Institution; extracts from correspondence; original or translated articles relating to the history and progress of science, etc. Over the typography and general mechanical execution, as well as the number of copies, of the Smithsonian Annual Reports the Institution has no control.

In the first experiments of the Smithsonian system of publication, the proper magnitude of the editions necessary to meet the immediate and future demand could not be accurately ascertained. The number of copies of the Contributions then fixed upon, has since been found inadequate, although it was larger than that usually issued by other institutions. The edition has, therefore, been augmented, until at the present time 1000 copies of each article are set aside to be combined into volumes, and an extra number, varying with the probable demand, from 500 to 1500, struck off for separate distribution, and for sale.

Each article is complete in itself, with separate paging, title, and index, and without any necessary relationship to others combined with it in the same volume.

Of the first volume of Smithsonian Contributions, the edition, for reasons already explained, is less than of the succeeding ones, so that complete sets cannot now be always furnished. A considerable number of the earlier articles in octavo, also, are out of print, and cannot be furnished in series for the same reason; they are, therefore, necessarily excluded from the "Smithsonian Miscellaneous Collections." Most of such works, however, have been or will be reproduced in later and improved editions.

The regular series of volumes of Smithsonian Annual Reports begins with 1853, those for previous years being pamphlets now out of print. The essential portion of their contents is, however, given in the above-mentioned volume for 1853, so as to present a complete summary of the history of operations of the Institution from its commencement to the present time.

The rules governing the distribution of the Smithsonian publications are appended. To enable institutions not coming within their provisos, as well as individuals, to procure copies of such as

may be desired, a small number is set aside, and sold by the Institution, or its agents, at the prices affixed, which are intended merely to cover the actual cost of their publication. They may be obtained either directly from the Institution or of its general agents, Messrs. D. Appleton & Co., New York.

JOSEPH HENRY,

Secretary, S. I.

SMITHSONIAN INSTITUTION,
WASHINGTON, June, 1862.

RULES OF DISTRIBUTION.

The following rules have been adopted for the distribution of the series of the Smithsonian Contributions, and Miscellaneous Collections:—

1. They are to be presented to all learned societies of the first class which publish Transactions, and give copies of these, in exchange, to the Institution.

2. To all foreign libraries of the first class, provided they give in exchange their catalogues and other publications, or an equivalent from their duplicate volumes.

3. To all the colleges in actual operation in this country, provided they furnish, in return, meteorological observations, catalogues of their libraries and of their students, and all other publications issued by them relative to their organization and history.

4. To all States and Territories, provided they give, in return, copies of all documents published under their authority.

5. To all incorporated public libraries in this country, not included in any of the foregoing classes, now containing more than 10,000 volumes; and to smaller libraries, where a whole State or large district would be otherwise unsupplied.

Institutions devoted exclusively to the promotion of particular branches of knowledge, receive such articles published by the Institution as relate to their objects. Portions of the series are also given to institutions of lesser grade not entitled to the full series, and also to the meteorological correspondents of the Smithsonian Institution.

PUBLICATIONS
OF THE
SMITHSONIAN INSTITUTION,
WASHINGTON, D. C.

CORRECTED TO JUNE, 1862.

PART I.
PRINTED BY THE INSTITUTION.

A. ARRANGED IN SERIES.
CONTRIBUTIONS TO KNOWLEDGE,
QUARTO SERIES.

1. Smithsonian Contributions to Knowledge 1848. Vol. I,
4to. pp. 346, with 48 plates and 207 wood-cuts. (Out of print.)

Contains: (1.) **Squler & Davis**, Ancient Mon. Miss.
Valley.

26. Smithsonian Contributions to Knowledge. 1851. Vol. II,
4to. pp. 464, and 24 plates. Price \$6.

Contains: (3.) **Walker**, Researches relative to Neptune.
(12.) **Lieber**, Laura Bridgeman; (20.) **Bailey**, Soundings
U. S. C. Survey; (13.) **Ellet**, Phys. Geog. Miss. Valley;
(14.) **Gibbes**, Mosasaurus; (16.) **Agassiz**, Class. Insects;
(17.) **Hare**, Expl. Nitre; (23.) **Bailey**, Microsc. Obs. in
S. States; (15.) **Squier**, Aboriginal Mon. New York.

The Appendix embraces: (4*.) **Walker**, Eph. Neptune,
1795-1849; (6.) Do. for 1850; (7.) Do. for 1851; (11.)
Downes, Occultations for 1851.

38. Smithsonian Contributions to Knowledge. 1852. Vol. III,
4to. pp. 564, and 35 plates. Price \$6.

Contains: (35.) **Locke**, Terrest. Magnetism; (36.)
Secchi, Electric Rheometry; (30.) **Girard**, N. Am. Cot-

toids; (32.) **Harvey**, Marine Algæ N. A.; (22.) **Gray**, Plantæ Wrightianæ, I; (33.) **Davis**, Flood Tide; (37.) **Whittlesey**, Ancient Works in Ohio.

The Appendix embraces: (24.) **Walker**, Eph. Neptune, 1852; (29.) **Downes**, Occultations, 1852.

39. Smithsonian Contributions to Knowledge. 1852. Vol. IV, 4to. pp. 426. Price \$6.

Contains: (40.) **Riggs**, Dakota Grammar and Dictionary.

55. Smithsonian Contributions to Knowledge. 1853. Vol. V, 4to. pp. 538, and 45 plates. Price \$6.

Contains: (44.) **Leidy**, Fauna and Flora of Animals; (41.) **Leidy**, Fossil Ox; (45.) **Wyman**, *Rana pipiens*; (43.) **Harvey**, Marine Algæ N. A. II; (42.) **Gray**, Plantæ Wrightianæ, II.

56. Smithsonian Contributions to Knowledge. 1854. Vol. VI, 4to. pp. 476, and 53 plates. Price \$6.

Contains: (46.) **Torrey**, Plantæ Fremontianæ; (60.) **Torrey**, *Batis maritima*; (61.) **Torrey**, *Darlingtonia Californica*; (50.) **Stimpson**, Marine Invert. Grand Manan; (52.) **Coffin**, Winds of Northern Hemisphere; (58.) **Leidy**, Ancient Fauna Nebraska.

The Appendix embraces: (54.) **Downes**, Occultations, 1853.

76. Smithsonian Contributions to Knowledge. 1855. Vol. VII, 4to. pp. 252, 70 wood-cuts, and 74 plates. Price \$6.

Contains: (59.) **Chappellsmith**, Tornado; (63.) **Bailey**, New Microsc. Organisms; (70.) **Lapham**, Antiquities Wisconsin; (72.) **Leidy**, Extinct Sloths N. A.

The Appendix embraces: (73.) Publications Learned Societies, I.

78. Smithsonian Contributions to Knowledge. 1856. Vol. VIII, 4to. pp. 556, 9 plates, and 27 wood-cuts. Price \$6.

Contains: (71.) **Haven**, Archaeology U. S.; (81.) **Olmsted**, Recent Period of Aurora; (80.) **Alvord**, Tangencies Circles and Spheres; (82.) **Jones**, Chem. and Phys. Res.

The Appendix embraces: (84.) **Force**, Record of Auroras; (85.) Publications Learned Societies, II.

92. Smithsonian Contributions to Knowledge. 1857. Vol. IX, 4to. pp. 482, and 22 plates. Price \$6.

Contains: (83.) **Meech**, Intensity Sun's Heat and Light. (90.) **Hitchcock**, Surface Geology; (86.) **Mayer**, Obs. Mex. Archæology; (88.) **Gibbs & Genth**, Ammonia-Cobalt Bases.

The Appendix embraces: (79.) **Runkle**, New Planetary Tables; (94.) **Runkle**, Asteroid Supplement to the same.

99. Smithsonian Contributions to Knowledge. 1858. Vol. X, 4to. pp. 462, and 17 plates. Price \$6.

Contains: (95.) **Harvey**, Marine Algæ N. A., III.; (97.) **Kane**, Magnet. Obs. Arctic Seas; (98.) **Bowen**, Yoruba Language.

111. Smithsonian Contributions to Knowledge. 1859. Vol. XI, 4to. pp. 506, and 23 plates. Price \$6.

Contains: (89.) **Brewer**, N. A. Oology, I.; (100.) **Gilliss**, Solar Eclipse Peru; (113.) **Bache**, Discussion Girard Coll. Obs. I.; (104.) **Kane**, Met. Obs. Arctic Seas; (126.) **Leconte**, Coleoptera Kansas and N. M.; (114.) **Sonntag**, Magnet. Obs. Mexico; (127.) **Loomis**, Storms in Europe and Am.

112. Smithsonian Contributions to Knowledge. 1860. Vol. XII, pp. 540, 3 plates, and 12 wood-cuts. Price \$6.

Contains: (129.) **Kane**, Astron. Obs. Arctic Seas; (119.) **Whittlesey**, Change of Level in Lakes; (103.) **Caswell**, Met. Obs. Providence; (131.) **Smith**, Met. Obs. Arkansas; (135.) **Mitchell**, Venom of Rattlesnake.

150. Smithsonian Contributions to Knowledge. Vol. XIII. (In press.)

Note.—The twelve volumes already published and distributed of the Smithsonian Contributions to Knowledge, include, with few exceptions, all the quarto memoirs printed directly by the Institution. Of those not enumerated above, Nos. 130. **Kane**, Tidal Observations in the Arctic Seas; 146. **McClintock**, Meteorological Obs. Arctic Seas; 155. **Whittlesey**, Ancient Mining; and 132, 162. **Bache**, Discussion Girard Coll. Obs. II, will form part of Volume XIII. Of the remainder,—(8.) **Downes**, Occultations for 1848; (9.) Do. for 1849; (10.) Do. for 1850; and (2.) **Owen**, Hints on Public Architecture,—the editions published were too small to incorporate into the series. No. 40*. Dakota Grammar is

an extra edition of portion of No. 40. *Dacota Grammar and Dictionary*; and No. 86. **Harvey**, *Marine Algæ of N. Am.* consists of the three separate parts bound into one.

Nos. 1, 26, 38, 39, 55, 56, 76, 78, 92, 99, 111, 112, 151 refer to the thirteen volumes *Smithsonian Contributions*, containing works separately numbered. Nos. 120. **Hildreth**, *Met. Obs. Ohio*, and 121. **Berlandier**, *Met. Obs. Mexico*, though a long time in preparation, are not yet ready to be printed.

MISCELLANEOUS COLLECTIONS.

OCTAVO SERIES.

122. *Smithsonian Miscellaneous Collections*. 1862. Vol. I, 8vo. pp. 732. Price \$3, paper.

Contains: (19.) *Directions for Meteorological Observations*; (87.) **Coffin**, *Psychrometrical Tables*; and (31.) **Guyot**, *Meteorological and Physical Tables*.

123. *Smithsonian Miscellaneous Collections*. 1862. Vol. II, 8vo. pp. 692. Price \$3.

Contains: (27.) **Booth and Morfit**, *Recent Improvements in Chemical Arts*; (115.) *Proceedings Board Regents Smithsonian Institution in relation to the Electro-magnetic Telegraph*; (53.) **Stanley**, *Catal. Portraits N. Am. Indians*; (108.) **Baird**, *Catalogue of N. Amer. Birds*; (49.) **Baird and Girard**, *Catal. North Am. Reptiles—Serpents*; (128.) *Check List Shells N. A.*; (34.) *Directions for Collecting*; (137.) *Circular to Officers H. B. Co.*; (139.) *Instructions for collecting Nests and Eggs; N. Am. Grasshoppers*; and *N. Am. Shells*; (138.) **Morgan**, *Circular respecting Relationship*.

124. *Smithsonian Miscellaneous Collections*. Vol. III, 8vo. pp. 766. Price \$3.

Contains: (102.) **Osten Sacken**, *Catalogue Diptera N. A.*; (118.) **Morris**, *Catal. described Lepidoptera N. A.*; (136.) **Le Conte**, *Classif. Coleoptera, I*; (117.) *Catal. Publications of Societies in Smithsonian Library*.

Note.—Of this volume, Nos. 102, 118, and 117 have already been distributed to American institutions, rendering it only necessary to furnish in addition the introductory matter and *Le Conte's Classification of Coleoptera*, as above.

125. Smithsonian Miscellaneous Collections. Vol. IV, 8vo.
pp. 752. Price \$3.

Contains: (134.) **Hagen**, Synopsis of N. Am. Neuroptera,
and (133.) **Morris**, Synopsis of N. A. Lepidoptera.

158. Smithsonian Miscellaneous Collections. Vol. V, 8vo.
(In press.)

This volume will contain of works already printed: (141.)
Loew, Monographs of Diptera, Part I.; (64.) List of Foreign
Correspondents of Smithsonian Institution; and (74.) List of
Publications of the Smithsonian Institution, with some others.

Note.—The preceding volumes of "Miscellaneous Collec-
tions" include all the octavo works printed by the Smithso-
nian Institution of which copies enough remain on hand to
furnish the entire first class list of distribution. The remain-
ing articles have, however, been already supplied to most of
its regular correspondents.

As stated in the introduction, a number of the articles
mentioned as out of print have been incorporated in later
works included in the Miscellaneous Collections and Annual
Reports.

The works coming under the head of "Out of Print" are as
follows: (18.) **Gould**, Report on Neptune; (101.) **Hill**, Map
of Solar Eclipse; (93.) Smithsonian Meteorological Observa-
tions for 1855; (68.) **Mitchell**, Vocabulary of Jargon; (62.)
Melshelmer, Catalogue of Coleoptera; (48.) **Girard**, Ameri-
can Natural History Bibliography; (25.) **Jewett**, Smithsonian
Catalogue System; (A.) Proceedings of Regents, 1846; (B.)
Report Committee of Organization; (C.) Digest of Acts of
Congress; (D.) Address on laying corner-stone; (E.) Ex-
planation Smithsonian's Bequest; (K.) Correspondence on
Memoir of Squier and Davis.

The works which are being prepared, or in press, are so
marked, consisting of Nos. 140, 142, 143, 144, 145, 148, 153,
154, 156, 160, 161, 163, 165.

No. 164, Museum Miscellanea, does not form part of the
Miscellaneous Collections.

B. SYSTEMATIC LIST OF TITLES.

MATHEMATICS.

80. **Alvord.**—The Tangencies of Circles and of Spheres. By Benjamin Alvord, Major U. S. Army. January, 1856. 4to. pp. 16, and 9 plates. (S. C. VIII.) Price 50 cents.

ASTRONOMY.

8. **Downes.**—Occultations visible in the United States during the year 1848. Computed under the direction of the Smithsonian Institution. By John Downes. 1848. 4to. pp. 12.

9. **Downes.**—Occultations visible in the United States during the year 1849. Computed under the direction, and at the expense of the Smithsonian Institution. By John Downes. 1848. 4to. pp. 24.

10. **Downes.**—Occultations visible in the United States during the year 1850. Computed by John Downes, at the expense of the fund appropriated by Congress for a Nautical Almanac, and published by the Smithsonian Institution. 1849. 4to. pp. 26.

These three papers by Mr. Downes were not published in the series of Contributions.

11. **Downes.**—Occultations visible in the United States during the year 1851. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. Oct. 1850. 4to. pp. 26. (S. C. II.) Price 20 cents.

29. **Downes.**—Occultations visible in the United States during the year 1852. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. 1852. 4to. pp. 34. (S. C. III.) Price 20 cents.

54. **Downes.**—Occultations of Planets and Stars by the Moon during the year 1853. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. 1853. 4to. pp. 36. (S. C. VI.) Price 20 cents.

3. **Walker.**—Researches relative to the Planet Neptune. By Sears C. Walker, Esq. 1850. 4to. pp. 60. (S. C. II.) Price 50 cents.

4. **Walker.**—Ephemeris of Neptune for the Opposition of 1848. By Sears C. Walker, Esq. 1849. 4to. pp. 8.

5. **Walker.**—Ephemeris of the Planet Neptune for the date of the Lalande Observations of May 8 and 10, 1795, and for the Opposition of 1846, '47, '48, and '49. By Sears C. Walker, Esq. April, 1849. 4to. pp. 32. (S. C. II.) Price 20 cents.

6. **Walker.**—Ephemeris of the Planet Neptune for the year 1850. By Sears C. Walker, Esq. April, 1850. 4to. pp. 10. (S. C. II.) Price 10 cents.

7. **Walker.**—Ephemeris of the Planet Neptune for the year 1851. By Sears C. Walker, Esq. Dec. 1850. 4to. pp. 10. (S. C. II.) Price 10 cents.

24. **Walker.**—Ephemeris of the Planet Neptune for the year 1852. By Sears C. Walker, Esq. 1853. 4to. pp. 10. (S. C. III.) Price 10 cents.

18. **Gould.**—On the History of the Discovery of the Planet Neptune. By B. A. Gould, Jr. 1850. 8vo. pp. 56. Price 25 cents.

79. **Runkle.**—New Tables for determining the Values of the Coefficients in the Perturbative Functions of Planetary Motion, which depend upon the ratio of the mean distances. By John D. Runkle, Assistant in the office of the American Ephemeris and Nautical Almanac. Nov. 1856. 4to. pp. 64. (S. C. IX.) Price 50 cents.

94. **Runkle.**—Asteroid Supplement to New Tables for determining the value of $b_g^{(i)}$ and its derivatives. By John D. Runkle. May, 1857. 4to. pp. 72. (S. C. IX.) Price 50 cents.

100. **Gilliss.**—An Account of the Total Eclipse of the Sun

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2. **Owen.**—Hints on Public Architecture, containing, among other illustrations, Views and Plans of the Smithsonian Institution, together with an Appendix relative to Building Materials. Prepared on behalf of the Building Committee of the Smithsonian Institution, by Robert Dale Owen, Chairman of the Committee. 1849. 4to. pp. 140, 15 plates and 99 wood-cuts. (Out of print.)

MISCELLANEOUS.

B. Report of the Organization Committee of the Smithsonian Institution, with the resolutions accompanying the same, and adopted by the Board of Regents. Also the will of the testator, the act accepting the bequest, and the act organizing the Institution. Published by authority of the Board of Regents. 1847. 8vo. pp. 32. (Out of print.)

C. Digest of the Act of Congress establishing the Smithsonian Institution. Passed August 10, 1846. 8vo. pp. 8. (Out of print.)

A. Journal of Proceedings of the Regents of the Smithsonian Institution, at the City of Washington. Beginning on the first Monday of September, 1846. 8vo. pp. 32. (Out of print.)

D. Address delivered on occasion of laying the corner stone of the Smithsonian Institution, May 1, 1847. By George M. Dallas, Chancellor of the Institution. 1847. 8vo. pp. 8. (Out of print.)

E. Smithsonian Bequest. Prof. Henry's Exposition before the New Jersey Historical Society at its meeting in Princeton, Wednesday, September 27th, 1847, by invitation from the Executive Committee. 8vo. pp. 8. (Out of print.)

K. Smithsonian Institution's Correspondence relative to the acceptance for publication of the Ethnological Memoir of Messrs. Squier and Davis. 8vo. pp. 8. (Out of print.)

69. List of Domestic Institutions in correspondence with the Smithsonian Institution. 1853. 8vo. pp. 16.

64. List of Foreign Institutions in correspondence with the Smithsonian Institution. 1856. 8vo. pp. 16.

64. List of Foreign Institutions in correspondence with the Smithsonian Institution. 1862. 8vo. pp. 40.

137. Circular to Officers of the Hudson's Bay Company. 1860. 8vo. pp. 6.

PART II.

WORKS PRINTED BY CONGRESS.

A. SERIES OF ANNUAL REPORTS.

ANNUAL REPORTS TO CONGRESS.

G. (First) Report from the Board of Regents submitted to Congress, of the operations, expenditures, and condition of the Smithsonian Institution. (During the year 1846.) Read and ordered to be printed, March 3, 1847. Senate Doc. 211; 29th Congress, 2d Session. 1847. 8vo. pp. 38. (Out of print.)

H. Second Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution during the year 1847. January 6, 1848, read and ordered to be printed. 30th Congress, 1st Session. Senate Miscellaneous No. 23. 1848. 8vo. pp. 208. (Out of print.)

I. Third Annual Report of the Board of Regents of the Smithsonian Institution to the Senate and House of Representatives, showing the operations, expenditures, and condition of the Institution during the year 1848. February 19, 1849, laid upon the table and ordered to be printed. 30th Congress, 2d Session. H. R. Miscellaneous No. 48. 1849. 8vo. pp. 64. (Out of print.)

21. Fourth Annual Report of the Board of Regents, &c., during the year 1849. July 29, 1850, read, and July 30, 1850, ordered to be printed. 31st Congress, 1st Session. Senate Miscellaneous No. 120. 1850. 8vo. pp. 208. (Out of print.)

28. Fifth Annual Report of the Board of Regents, &c., during the year 1850. March 1, 1851, read; March 7, 1851, ordered to be printed. Special Session. March, 1851. Senate Miscellaneous No. 1. 1851. 8vo. pp. 326. (Out of print.)

51. Sixth Annual Report of the Board of Regents, &c., during

the year 1851, and the proceedings of the Board of Regents up to date. August 20, 1852, ordered to lie on the table, and be printed. 32d Congress, 1st Session. Senate Miscellaneous No. 103. 1852. 8vo. pp. 105. (Out of print.)

57. Seventh Annual Report of the Board of Regents, &c., during the year 1852, and the proceedings, &c. March 1, 1853, ordered to lie on the table, and be printed. 32d Congress, 2d Session. Senate Miscellaneous No. 53. 1853. 8vo. pp. 96. (Out of print.)

67. Eighth Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution up to January 1, 1854, and the proceedings of the Board up to July 8, 1855. August 1, 1854, laid on the table, and ordered to be printed. 33d Congress, 1st Session. House of Representatives Miscellaneous No. 97. 1854. 8vo. pp. 310.

The editions of all the reports prior to that for 1853 are almost entirely exhausted. In the preceding one, however, all the previous reports of the Secretary are reproduced from the beginning, so that this embraces the substance of all that have gone before it.

75. Ninth Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution up to January 1, 1855, with the proceedings of the Board up to February 24, 1854. March 3, 1855, ordered to be printed. 1855. 8vo. pp. 464.

77. Tenth Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution up to January 1, 1856, and the proceedings of the Board up to March, 1856. May 23, 1856, laid on the table, and ordered to be printed. 1856. 8vo. pp. 438.

91. Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution for the year 1856, and the proceedings of the Board up to January 28, 1857. 1857. 8vo. pp. 468.

107. Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures and condition of the Institution for the year 1857. 1858. 8vo. pp. 438.

109. Annual Report, etc., for the year 1858. 1859. 8vo. pp. 450.

110. Annual Report, etc., for the year 1859. 1860. 8vo. pp. 448.

147. Annual Report, etc., for the year 1860. 1861. 8vo. pp. 448.

149. Annual Report, etc., for the year 1861. 8vo. (In press.)

150. Annual Report, etc., for the year 1862. (In preparation.)

B. SPECIAL ARTICLES IN ANNUAL REPORTS.

ASTRONOMY.

Loomis.—Lecture on the Zone of small Planets between Mars and Jupiter. By Professor Elias Loomis. Report for 1854, pp. 137—146. 1855.

Snell.—Lecture on Planetary Disturbances. By Prof. E. S. Snell. Report for 1855, pp. 175—190. 1856.

Alexander.—Lecture on the Vastness of the Visible Creation. By Prof. S. Alexander. Report for 1857, pp. 168—178. 1858.

Caswell.—Lectures on Astronomy. By Prof. A. Caswell. Report for 1858, pp. 85—137. 1859.

Maedler.—Latest Researches of M. Maedler, relating to the general movement of the Stars around a central point. Translated for the Smithsonian Institution. Report for 1859, pp. 220—234. 1860.

METEOROLOGY.

Russell.—Lectures on Meteorology. By R. Russell. Report for 1854, pp. 18—215. With an Appendix by the Secretary of the Smithsonian Institution, pp. 215—230. 1855.

Gibbons.—On the Climate of San Francisco. By Dr. H. Gibbons. Report for 1854, pp. 231—271. 1855.

Logan.—Abstract of Meteorological Observations made during the years 1853—5, at Sacramento, Cal. By Dr. Thomas M. Logan. Report for 1855, pp. 191—210. 1856.

Smallwood.—Description of the Observatory at St. Martin, Isle Jesus, Canada East. By Dr. Charles Smallwood. Report for 1856, pp. 311—319. 1857.

Meech.—On the relative Intensity of the Heat and Light of the Sun upon different Latitudes of the Earth. By L. W. Meech. Report for 1856, pp. 321—356. 1857.

Duprez.—Report on Atmospheric Electricity. By M. T. Duprez. Translated from the French by Dr. L. D. Gale. Report for 1858, pp. 290—371. 1859.

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TERRESTRIAL MAGNETISM.

Hilgard.—Description of the Magnetic Observatory of the Smithsonian Institution. By J. E. Hilgard. Report for 1859, pp. 385—395. 1860.

Sabine.—Notices of the Progress of our Knowledge regarding the Magnetic Storms. By Maj. Gen. E. Sabine. (From the Proceedings of the Royal Society.) Report for 1860, pp. 393—400. 1861.

PHYSICS.

Muller.—Report on Recent Progress in Physics. By Dr. John Müller of Freiburg. (Translated from the German for the Smithsonian Institution.) Report for 1855, pp. 311—424. Report for 1856, pp. 357—456. Report for 1857, pp. 332—431. Report for 1858, pp. 372—415.

Henry.—Syllabus of a Course of Lectures on Physics. By Professor Joseph Henry. Report for 1856, pp. 187—220. 1857.

Powell.—Reports on the State of Knowledge of Radiant Heat, made to the British Association for the Advancement of Science at the meetings in 1832, 1840, and 1854. By the Rev. Baden Powell. Report for 1859, pp. 298—384. 1860.

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Chace.—Lecture on Oxygen and its Combinations. By Prof. George J. Chace. Report for 1855, pp. 143—150. 1856.

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Kohl.—Substance of a Lecture delivered at the Smithsonian Institution on a Collection of the Charts and Maps of America. By J. G. Kohl. Report for 1856, pp. 93—147. 1857.

ETHNOLOGY.

Letherman.—Sketch of the Navajo Indians. By Dr. J. Letherman, U. S. A. Report for 1855, pp. 283—297. 1856.

Guest.—Ancient Indian Remains near Prescott, C. W. By W. E. Guest. Report for 1856, pp. 271—276. 1857

Retzius.—Present State of Ethnology in relation to the Form of the Human Skull. By Prof. A. Retzius. Translated from the French by C. A. Alexander. Report for 1859, pp. 250—270. 1860.

Morlot.—General Views on Archæology. By A. Morlot. Translated by P. A. Harry. Report for 1860, pp. 284—343. 1861.

GENERAL NATURAL HISTORY.

Miscellaneous Natural History Correspondence. On the Natural History of Beaver Islands, Mich., by J. J. Strang. On the Habits of the Black Bass of the Ohio (*Grystes fasciatus*), by John Eoff. On the Natural History of the Country about Fort Ripley, Minn., by Dr. J. F. Head, U. S. A. On the Habits of the Gopher of Illinois (*Geomys bursarius*), by T. S. Parvin. On the Habits of a species of Salamander (*Amblystoma opacum*) Bd., by the Rev. Charles Mann. On the *Amblystoma luridum*, a Salamander inhabiting Wisconsin, by Dr. P. R. Hoy. Report for 1854, pp. 282—295. 1855.

Morris.—Lecture on Natural History as applied to Farming and Gardening, and on Insect Instinets and Transformations. By Rev. J. G. Morris. Report for 1855, pp. 130—141. 1856.

Instructions in reference to Collecting Nests and Eggs of North American Birds. Report for 1858, pp. 153—157. 1859.

Instructions for Collecting Insects. *Coleoptera*, by Dr. J. L. Le Conte. *Diptera*, by Dr. H. Loew and Baron R. Osten Sacken. *Lepidoptera*, by Dr. B. Clemens. (Other orders by P. R. Uhler.) Report for 1858, pp. 158—200. 1859.

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Brainard.—Lecture on the Nature and Cure of the Bite of Serpents and the Wounds of Poisoned Arrows. By Dr. David Brainard. Report for 1854, pp. 123—136. 1855.

ZOOLOGY.

Marsh.—Lecture on the Camel. By Hon. George P. Marsh. Report for 1854, pp. 98—122. 1855.

Gesner.—On the Habits of the Pouched Rat or Salamander (*Geomys pineti*) of Georgia. By Dr. W. Gesner. Report for 1860, pp. 431—433. 1861.

Willis.—List of Birds of Nova Scotia. Compiled from notes by Lieut. Blakiston, R. A., and Lieut. Bland, R. E., made in 1852—1855. By J. R. Willis. Report for 1858, pp. 280—286. 1859.

Bland.—List of Birds of Bermuda. By Lieut. Bland, R. E. Communicated by John R. Willis. Report for 1858, pp. 286—289. 1859.

Barnard.—Catalogue of the Birds of Chester County, Pa. By Vincent Barnard. Report for 1860, pp. 434—438. 1861.

Newton.—Suggestions for Saving Parts of the Skeletons of Birds. By Alfred Newton. Report for 1860, pp. 417—421. 1861.

Baird.—Report on the Fishes observed on the Coasts of New Jersey and Long Island during the summer of 1854. By Spencer F. Baird. Report for 1854, pp. 317—353. 1855.

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Extra edition of the preceding article with alphabetical index added.

Gill.—On the Fishes of New York. By Theodore Gill. Report for 1856, pp. 253—269. 1857.

Taylor.—An Account of the Grasshoppers and Locusts of America. By A. S. Taylor. Report for 1858, pp. 200—214. 1859.

Motschulsky.—On the Means of Destroying the Grasshopper. By V. Motschulsky. Translated from the Russian by Prof. W. W. Turner. Report for 1858, pp. 214—228. 1859.

Vollum.—Notes on the Wingless Grasshopper of California. By E. P. Vollum, U. S. A. Report for 1860, pp. 422—425. 1861.

Carpenter.—Lectures on the Shells of the Gulf of California. By P. P. Carpenter. Report for 1859, pp. 194—219. 1860.

Carpenter.—Lectures on Mollusca, or "Shellfish," and their Allies. By P. P. Carpenter. Report for 1860, pp. 150—283. 1861.

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BOTANY AND BOTANICAL GEOGRAPHY.

Harvey.—Substance of a Course of Lectures on Marine Algæ. By W. H. Harvey. Report for 1855, pp. 87—130. 1856.

Martens.—Vegetable Colonization of the British Isles, of Shetland, Faroe, and Iceland. By Charles Martens. Translated from the French for the Smithsonian Institution. Report for 1858, pp. 229—245. 1859.

Cooper.—On the Distribution of the Forests and Trees of North America, with notes on its physical geography. By Dr. J. G. Cooper. Report for 1858, pp. 246—280. 1859. Continuation. Report for 1860, pp. 439—442. 1861.

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Catalogues of Rocks, Minerals, and Ores collected during various U. S. Geological Surveys, and deposited in the Smithsonian Institution. Collections by Dr. C. T. Jackson, Dr. John Locke, J. W. Foster, J. D. Whitney, and Dr. D. D. Owen. Report for 1854, pp. 338—396. 1855.

Smith.—Lecture on Meteoric Stones. By Prof. J. Lawrence Smith. Report for 1855, pp. 151—174. 1856.

Contains description and figure of the great Couch Meteorite in the Museum of the Smithsonian Institution.

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Extra edition of the preceding.

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Cuvier.—Memoir of Priestley. Read before the National Institute of France, by M. Cuvier, June 27, 1805. Translated by C. A. Alexander. Report for 1858, pp. 138—152. 1859.

Flourens.—Memoir of Pyramus De Candolle. By M. Flourens. Translated for the Smithsonian Institution by C. A. Alexander. Report for 1859, pp. 271—283. 1860.

Cuvier.—Memoir of Hallé. Read before the Academy of Science by Baron Cuvier. Translated by C. A. Alexander. Report for 1860, pp. 376—392. 1861.

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Reed.—Lecture on the Union. By Prof. Henry Reed. Report for 1854, pp. 156—181. 1855.

Babbage.—On Tables of the Constants of Nature and Art. By Charles Babbage. Report for 1856, pp. 289—302. 1857.

The Microscope. Translated from the German by C. A. Alexander. Report for 1860, pp. 344—354. 1861.

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CHECK LIST

OF

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 J. Programme Organization.
 K. Corresp. on work of Squier & Davis.</p> <p>1. Contributions, Vol. I.
 1*. Squier & Davis. Anc. Mon. Miss. Val.
 2. Owen. Hints Pub. Archit.
 3. Walker. Mem. Neptune.
 4. " Eph. Nept., 1848.
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 8. Downes. Occultations, 1848.
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 12. Lieber. Laura Bridgeman.
 13. Ellet. Phys. Geog. Miss. Valley.
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 18. Gould. Report on Neptune.
 19. Guyot. Meteor. Directions.
 20. Bailey. Soundings Coast Survey.
 21. Annual Rep. S. I. (4th), 1849.
 22. Gray. Pl. Wrightianæ. I.
 23. Bailey. Mier. Obs. S. States.
 24. Walker. Eph. Neptune, 1852.
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 26. Contributions, Vol. II.
 27. Booth & Morfit. Recent Imp. Chem. Arts.</p> | <p>28. Annual Report S. I. (5th), 1850.
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 45. Wyman. Rana pipiens.
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 47. Jewett. Sm. Catalogue System.
 48. Girard. Am. Nat. Hist. Bibl., 1851.
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68. **Mitchell.** Vocab. of Jargon.
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145. **Prime.** Cyclades.
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G. Annual Report S. I. (1st), for 1846.

F. First Report Sec. S. I., 1847.

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80. Alvord. Tangencies of Circles.

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8. Downes. Occultations, 1848.
 9. " " " 1849.
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CORRECTED TO JANUARY, 1862.



WASHINGTON:
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MAY, 1862.

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As new editions of the list will be published from time to time, the Smithsonian Institution desires to receive any information relative to new addresses, changes of title or character of the old ones, typographical errors, etc.

JOSEPH HENRY,
Secretary S. I.

SMITHSONIAN INSTITUTION,
WASHINGTON, April, 1862.

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OF
FOREIGN CORRESPONDENTS.

SCANDINAVIA.

- Hit Konungliga Norræna Fornfrœda Fèlag (Royal Society of Northern Antiquaries). (See *Copenhagen*.)
Nordisk Universitets-Tidsskrift (Journal of the Northern Universities).
Skandinaviske Naturforskeres Forsamling (Scandinavian Association of Naturalists).

SWEDEN.

- Götheborg**—Kongliga Vetenskaps- och Vitterhets-Samhället (Royal Society of Science and Belles Lettres).
Lund—Kongliga Universitetet.
Observatoriet.
Physiographiske Forening (Physiographic Association).
Stockholm—Kongliga Landbruks-Akademien (Royal Academy of Agriculture).
Kongliga Vetenskaps-Akademien (Royal Academy of Science).
Kongliga Vitterhets- Historie- och Antiquitets-Akademien (Royal Academy of Belles Lettres, History, and Antiquities).
Observatoriet.
Pharmaceutiska Institutet.
Riksbiblioteket (Royal Library).

Schwedische Gesellschaft der Aertze.
Svenska Akademien.

Upsala—Kongliga Universitetet.
Kongliga Vetenskaps-Societeten (Royal Society of Science).
Universitetets Observatoriet.
Westeras^c—Bibliotheca Arosiensis.

NORWAY.

Bergen—Bergensk Museum (Bergen's Museum).
Christiania—Forening til Norske Fortidsminde-merk-ers Be-
varing (Society for the Preservation of Northern Antiquities).
Kongelige Norske Universitet.
Observatorium.
Videnskabs Selskab i Christiania (Scientific Society of Christiania).
Trondhjem (Drontheim)—Kongelige Norske Videnskabs-
ernes-Selskab (Royal Northern Society of Science).

ICELAND.

Reykjavik—Íslands Stiftingsbókasafn (Iceland's Foundation Li-
brary).
Hit íslenska bókmentafélag (Publishers' Association of Iceland).

DENMARK.

Kjöbenhavn (Copenhagen)—Astronomisk Observatorium.
Danske Landmands-Forsamling (Association of Danish Agriculturists).
Kongelige Bibliothek.
Kongelige Danske Selskab for Fædrelandets Historie og Sprog (Royal Danish Society of National History and Language).
Kongelige Danske Søkort-Archivet. (Hydrographic Office.)

* Replacing the Physiographiske Forening.

- Kongelige Danske Videnskabernes-Selskab (Royal Danish Society of Science).
 Kongelige Landhuusholdnings-Selskab (Royal Society of Rural Economy).
 Kongelige Nordiske Oldskrift-Selskab (Royal Society of Northern Antiquaries).
 Naturhistoriske Forening.
 Samfund til den Danske Literaturs Fremme (Society for the Advancement of Danish Literature).
 Tidsskrift for Veterinær (Veterinary Journal).
 Veterinær-Selskab (Veterinary Society).

RUSSIA.

- Astrakhan**—Obshtshestvo Morskikh Wratchei (Society of Naval Physicians).
Cronstadt—Cronstatskaia flotskaia Biblioteka (Naval Library of Cronstadt).
 Morskaia Biblioteka (Naval Library).
 Morskaia Observatorïa (Naval Observatory).
 Obshtshestvo Morskikh Wratchei (Society of Naval Physicians).
Dorpat—Dorpat'er Naturforscher-Gesellschaft.
 Gelehrte Esthnische Gesellschaft.
 K. Universitäts-Sternwarte.
 Universität.
Helsingfors—Finske Läkare Sällskapet. (Society of Physicians of Finland.)
 Magnetisches und meteorologisches Observatorium.
 Societas Scientiarum Fennica.
 Universität.
Kasan—Imper. Kazanskii Universitet.
 Observatorium.
Kharkow—Universität.
Irkutsk—Société géographique.
Kiew—Imperatorskÿ Universitet Swjatago Wladimira (Imperial University of the Holy Wladimir).
 Observatorium.

Mitau—Kurländische Gesellschaft für Literatur und Kunst.

Moskwa (Moscow)—Imper. Moscovskii Universitet.

Imperat. Obshtshestvo Istorii i Drevnostei Rossiskih pri Moskovskom Universitete (Imperial Society of Russian History and Antiquities of the University of Moscow).

Imper. Obshtshestvo Selskago Khozaistva (Imperial Agricultural Society).

Observatorium.

Société Impériale des Naturalistes de Moscou.

Nicolaieff—

Nicolaievsk (Amoor River)—Obshtshestvo Morskikh Vratelch (Society of Naval Physicians).

Odessa—Bibliothèque Publique.

Glavnoé Outchilitché Sadovodstva (Central Horticultural School).

Gorodskaiâ Poublichenaiâ Biblioteka (Public City Library).

Obstshestvo Sel'skagó Khozaistva Joujnoi Rossii (Society of Rural Economy of Southern Russia).

Odesskoé Obshtshestvo Istorii i Drevnostei (Historical and Antiquarian Society of Odessa).

Outchilishitché Glucho-nemigh (Deaf and Dumb Institution).

Orenburg—Bibliothèque publique.

Pulkowa—Observatoire Impérial.

Reval—Esthländische litterarische Gesellschaft.

Riazan—Publitshnaja Biblioteka (Public Library).

Riga—Gesellschaft für Geschichte und Alterthumskunde der russischen Ostsee-Provinzen.

Gesellschaft Praktischer Ärzte.

Museum.

Naturforschender Verein.

St. Petersburg—His Imperial Majesty the Emperor of Russia.

Gidrographitseskii Departament Morskago Ministerstva (Hydrographical Department of the Ministry of Marine and Depot of Naval Charts of Russia).

Imperat. Akademija Nauk (Imperial Academy of Sciences).

Imper. Arkheologitcherskoje Obshchestvo (Imperial Archæological Society).

Imper. Publitchnaja Biblioteka (Imperial Public Library).

Imperat. Russkoe Geographitsheskoe Obshtshestvo (Imperial Russian Geographical Society).

Imper. St. Peterburgskii Universitet.

Imperat. Volnoe Ekonomitsheskoe Obshtshestvo (Imperial Free Economical Society).

Kais. pharmaceutische Gesellschaft.

Kais. Russ. Mineralogische Gesellschaft.

Ministerstvo narodnago prosvestchenija (Ministry of Public Instruction).

Morskoi-Outchenoi Comitet (Scientific Committee of the Marine).

Morskoje Ministerstvo (Ministry of the Marine).

Obshtshestvo Morskikh Wratchei (Society of Naval Physicians).

Shtab Korpusa gornyx Ingeneroff (Staff of the Corps of the Mining Engineers).

Statistitsheskii Tsentralnii Komitet (Central Statistical Committee).

Tsentralnaja fisitsheskaja Observatoria (Central Physical Observatory).

Vostotchnoi Institut (Oriental Institute).

Tiflis—Bibliothèque Publique.

Observatoire Magnétique et Météorologique.

Société Géographique du Caucase.

Toula—Bibliothèque Publique.

Vilna—Arkheologhitsheskaja Kommissia (Archæological Commission).

Observatoire Astronomique.

Warschau (Warsaw)—Académie Médico-Chirurgicale.

Biblioteka Towarzystwa Rolnierego Krolestwa Polskiego (Agronomical Society of Poland).

Observatoire Astronomique.

DE NEDERLANDEN. (HOLLAND.)

Amsterdam (*Noord-Holland*)—Koninklijke Akademie van Wetenschappen (Royal Academy of Sciences).

Koninklijk Zoologisch Genootschap "Natura Artis Magistra" (Royal Zoological Society).

Stadsbibliotheek (City Library).

Vereeniging voor Volksvlijt (Association for Popular Industry).

Wiskundig Genootschap: "Een onvermoeide Arbeid komt alles te boven" (Mathematical Society: "Untiring industry overcomes all").

Arnhem (*Gelderland*)—Genootschap "Tot Nut en Vergenoe-gen" (Society for Utility and Amusement).

Openbare Bibliotheek (Public Library).

Bois-le-Duc (*Brabant*)—Bibliotheek Noord-Brabant.

Société Littéraire du Brabant Hollandais.

Delft (*Zuid-Holland*)—Bureau Technologique.

Koninklijke Akademie ter opleiding van burgerlijke ingenieurs enz (Royal Academy for the Education of Civil Engineers, etc.).

Deventer (*Overijssel*)—Openbare Bibliotheek (Public Library).

s'Gravenhage (The Hague) (*Zuid-Holland*)—Koninklijke Bibliotheek (Royal Library).

Koninklijk Instituut van Ingenieurs (Royal Institute of Engineers).

Nederlandsche Entomologische Vereeniging (Entomological Society of the Netherlands).

Groningen (*Groningen*)—Academia Groningana.

Genootschap ter Bevordering der Natuurkundig Wetenschappen (Society for the Advancement of Natural Sciences).

Haarlem (*Noord-Holland*)—Geologische Commissie in Nederland (Geological Commission of the Netherlands).

Hollandsche Maatschappij der Wetenschappen (Society of Sciences of Holland).

Nederländische Ökonomische Gesellschaft.

Teyler's Genootschap.

Hertogenbosch (*Noord-Brabant*)—Provinciaal Genootschap van Kunsten en Wetenschappen in Noord-Brabant.

Hoorn—Societas Medico-Physica Hornana.

Leeuwarden (*Friesland*)—Friesch Genootschap van Geschied-oudheid-en taalkunde (Friesland Society of History, Antiquity, and Philology).

Leiden (*Zuid-Holland*)—Academia Lugduno-Batava.
Maatschappij der Nederlandsche Letterkunde (Society of Literature of the Netherlands).
Rijk's Observatorium (National Observatory).
Rijk's Museum van Natuurlijke Geschiedenis (National Museum of Natural History).
Vereeniging voor de Flora van Nederland.

Middelburg (*Zeeland*)—Het Zeeuwsch Genootschap der Wetenschappen.
Provinciale Bibliotheek van Zeeland.

Rotterdam (*Zuid-Holland*)—Bataafsch Genootschap der Proefondervindelijke Wijsbegeerte (Batavian Society of Experimental Philosophy).

Utrecht (*Utrecht*)—Academia Rheno-Trajectina.
Archiv für holländische Beiträge zur Natur- und Heilkunde.
Historisch Genootschap.
Koninklijk Nederlandsch Meteorologisch Instituut.
Observatorium.
Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen (Provincial Society of Arts and Sciences of Utrecht).

Zwolle (*Overijssel*)—Overijsselsche Vereeniging tot Ontwikkeling van Provinciale Welvaart (Overijssel Society for Promotion of Provincial Welfare).
Vereeniging tot beoefening van Overijsselsch Rigt en Geschiedenis (Society for the Cultivation of Overijssel Jurisprudence and History).

GERMANY including AUSTRIA and PRUSSIA.

Allgemeine Deutsche Apotheker Verein.

Deutsche Ornithologen-Gesellschaft.

- Verein der Süddeutschen Forstwirthe.
 Versammlung Deutscher Land- und Forstwirthe.
 Versammlung Deutscher Naturforscher und Aerzte.
- Aachen** (*Prussia*)—Verein für nützliche Wissenschaften und Gewerbe.
- Agram** (*Austria*)—Handels und Gewerbekammer für Kroatien.
 K. K. Kroatisch-Slavonische Landwirthschafts-Gesellschaft.
 Gesellschaft für südslav. Geschichte und Alterthümer.
- Altenburg** (*Saxe-Altenburg*)—Geschichts- und Alterthumsforschende Gesellschaft.
 Naturforschende Gesellschaft des Osterlandes.
 Pomologische Gesellschaft.
- Altona** (*Holstein*)—Sternwarte.
 Thierschutz Verein.
- Ansbach** (*Bavaria*)—Historischer Verein in Mittelfranken.
- Arolsen** (*Waldeck*)—Landwirthschaftlicher Verein im Fürstenthum Waldeck.
- Augsburg** (*Bavaria*)—Historischer Verein für Schwaben und Neuburg.
 Landwirthsch. Verein von Schwaben und Neuburg.
 Naturhistorischer Verein.
- Bamberg** (*Bavaria*)—Naturforschende Gesellschaft.
- Bendorf** (*Prussia*)—Deutsche Gesellschaft für Psychiatrie und gerichtliche Psychologie.
- Berlin** (*Prussia*)—Seine Majestät der König von Preussen.
 Acclimatisations-Verein für die Preuss. Staaten.
 Botanischer Verein für die Provinz Brandenburg, etc.
 Central Verein für das Wohl der arbeitenden Klassen.
 Deutsche Geologische Gesellschaft.
 Entomologischer Verein.
 General-Direction der Königlichen Museen.
 Gesellschaft für Erdkunde.
 Gesellschaft Naturforschender Freunde.
 Gewerbe-Institut.
 Königliche Bibliothek.
 Königliches Landes-Oeconomie-Collegium.

Königlich Preussische Akademie der Wissenschaften.
 Königlich Preussischer Generalstab der Armee.
 Königlich Preussische Kriegs-Akademie.
 Königlich Preussische Technische Bau-Deputation.
 Meteorologisches Institut.
 Physikalische Gesellschaft.
 Polytechnische Gesellschaft.
 Redaction des Archivs für path. Anatomie.
 Redaction des Landwirthschaftlichen Verein.
 Redaction des Nautischen Jahrbuchs (Dr. C. Bremi-
 ker).
 Redaction des Statistischen Central-Archivs (Dr. O.
 Hübner).
 Statistisches Bureau.
 Stenographischer Verein.
 Universitäts-Bibliothek.
 Universitäts-Sternwarte.
 Verein Deutscher Ingenieure.
 Verein für deutsche Statistik.
 Verein für Eisenbahnkunde.
 Verein zur Beförderung des Gartenbaues.
 Verein zur Beförderung des Gewerbelebens in Preussen.
 Vereinigte Artillerie und Ingenieur Schule.

Bernburg (*Anhalt*)—Norddeutscher Apotheker-Verein.

Bilk (bei Düsseldorf) (*Prussia*)—Sternwarte.

Blankenburg (*Brunswick*)—Naturwissenschaftlicher Verein
des Harzes.

Bonn (*Prussia*)—K. Sternwarte.

Landwirthschaftlicher Central-Verein für Rhein-
preussen.

Naturhistorischer Verein der preussischen Rhein-
lande und Westphalens.

Niederrheinische Gesellschaft für Natur u. Heilkunde.

Redaction des Wiegmann'schen Archivs für Natur-
geschichte. (Prof. Troschel.)

Universitäts-Bibliothek.

Universitäts-Sternwarte.

Verein von Alterthumsfreunden im Rheinlande.

Braunsberg—Physikalisch-Medicinische Gesellschaft.

- Braunschweig** (*Brunswick*)—F. Vieweg und Sohn.
Garten-Verein im Herzogthum Braunschweig.
- Bremen** (*Hanse-Town*)—Stadt-Bibliothek.
Sternwarte.
- Breslau** (*Prussia*)—Blinden-Anstalt.
Gewerbe-Verein.
Königl. Preuss. Ober-Berg-Amt.
Landwirthschaftlicher Central-Verein für Schlesien.
Schlesische Blinden-Unterrichts-Anstalt.
Schlesische Gesellschaft für vaterländische Cultur.
Schlesischer Verein für Berg-und Hüttenkunde.
Universitäts-Bibliothek.
Universitäts-Sternwarte.
Verein für schlesische Insektenkunde.
- Bregenz** (*Austria*)—Naturforschender Verein.
- Bromberg** (*Prussia*)—Landwirthschaftlicher Central-Verein für
den Netze-District.
- Brünn** (*Austria*)—K. K. Mährisch-schlesische Gesellschaft für
Ackerbau Natur- und Landeskunde.
Mährisch-schlesische Blinden-Erziehungs-Institute.
Werner-Verein zur geologischen Durchforschung von
Mähren und Schlesien.
- Buda** (*Austria*)—Á Magyar Tudományos Akademia.
- Cassel.** See *Kassel*.
- Celle** (*Hannover*)—Landwirthschaftliche Gesellschaft.
- Clempenow bei Anclam** (*Prussia*)—Baltischer Verein zur
Beförderung des Landwirthschaft.
- Coblenz.** See **Koblenz**.
- Cracau.** See **Krakau**.
- Czernowitz** (*Austria*)—Verein für Landeskultur und Landes-
kunde im Herzogthume Bukowina.
- Danzig** (*Prussia*)—Landwirthschaftlicher Central-Verein.
Naturforschende Gesellschaft.
Sternwarte.
- Darmstadt** (*Hessia*)—Gartenbau-Verein.
Grossherzoglich Hessische Central-Stelle für die Land-
wirthschaft.

Grossherz. Hessischer Gewerbe-Verein.

Grossherzogliche Hof-Bibliothek.

Mittelrheinisch-geologischer Verein.

Naturhistorischer Verein für das Grossherz. Hessen.

Verein für Erdkunde u. verwandte Wissenschaften.

Deidesheim (*Bavaria*)—Pollichia : Naturwissenschaftlicher Verein der bayerischen Pfalz.

Dessau (*Anhalt*)—Naturhistorischer Verein.

Dresden (*Saxony*)—Seine Majestät der König von Sachsen.

Flora : Gesellschaft für Botanik und Gartenbau.

Gesellschaft für Natur- und Heilkunde.

Gesellschaft "Isis."

Gewerbe-Verein.

Königliche Bibliothek.

Königliche Blinden-Anstalt.

K. Sächsische Oekonomische Gesellschaft.

Königl. sächs. Verein für Erforschung und Erhaltung vaterländischer Alterthümer.

K. Sammlung für Kunst u. Wissenschaften.

Sächsische Ingenieur-Verein.

Statistisches Bureau.

Elberfeld (*Prussia*)—Naturwissenschaftl. Verein v. Elberfeld u. Barmen.

Eldena (*Prussia*)—Baltischer Central Verein.

Gartenbau Verein für Neuvorpommern und Rügen.

K. P. Staats- und landwirthschaftl. Akademie Eldena.

Emden (*Hannover*)—Naturforschende Gesellschaft.

Taubstummen Anstalt.

Ems (*Nassau*)—Redaction der Balneologischen Zeitung.

Erfurt (*Prussia*)—Akademie Gemeinnütziger Wissenschaften.

Gartenbau-Verein.

Erlangen (*Bavaria*)—Universitäts-Bibliothek.

Physikalisch-Medicinische Gesellschaft.

Frankfurt-an-der-Oder (*Prussia*)—Historisch-Statistischer Verein.

Frankfurt-am-Main (*Hanse-Town*)—Aerztlicher Verein.

Gartenbaugesellschaft "Flora."

- Physikalischer Verein.
 Senckenbergische naturforschende Gesellschaft.
 Verein für Geographie und Statistik.
 Zoologische Gesellschaft.
- Freiberg** (*Saxony*)—Königlich Sächsische Bergakademie.
- Freiburg** (*Baden*)—Gesellschaft für Beförderung der Naturwissenschaften.
 Universitäts-Bibliothek.
- Friedberg** (*Hessia*)—Blinden-Anstalt.
 Taubstummen-Anstalt.
- Fürth** (*Bavaria*)—Gewerbe-Verein der Stadt Fürth.
- Giessen** (*Hessia*)—Historischer Verein.
 Oberhessische Gesellschaft für Natur- und Heilkunde.
 Universitäts-Bibliothek.
 Verein für Microscopie.
 Zoologisches Museum.
- Görlitz** (*Prussia*)—Naturforschende Gesellschaft.
 Oberlausitzer Gesellschaft der Wissenschaften.
 Verein für Hühnerzucht.
- Göttingen** (*Hannover*)—Königliche Gesellschaft der Wissenschaften.
 Sternwarte.
 Universitäts-Bibliothek.
- Gotha** (*Saxe-Koburg-Gotha*)—Geographische Anstalt.
 Herz. Bibliothek der Friedenstein'schen Sammlungen.
 Sternwarte.
 Thüringer Gartenbau-Verein.
- Gratz** (*Austria*)—Geognostisch-Montanistischer Verein für Steiermark.
 Historischer Verein für Steiermark.
 K. K. Steiermärkische Landwirthschafts-Gesellschaft.
 Steiermärkisch-Ständisches Joanneum.
 Steiermärkischer Industrie- und Gewerbe-Verein.
- Greifswald** (*Prussia*)—Universitäts-Bibliothek.
- Gumbinnen** (*Prussia*)—Landwirthschaftlicher Central-Verein für Littauen und Masuren.
- Hall** (*Austria*)—Verein zur Durchforschung Tirols und Vorarlbergs.

Halle (*Prussia*)—Naturforschende Gesellschaft.

Naturwissenschaftlicher Verein für Sachsen und Thüringen.

Thüringisch-Sächsischer Verein für vaterländische Alterthumskunde.

Universitäts-Bibliothek.

Hamburg (*Hanse-Town*)—Blinden-Anstalt.

Commerz-Bibliothek.

Johanneum.

Naturwissenschaftlicher Verein.

Stadt-Bibliothek.

Sternwarte.

Thierschutz-Verein.

Verein für Hamburgische Geschichte.

Verein für Handelsfreiheit.

Hanau (*Hessia*)—Wetterauer Gesellschaft für die gesammte Naturkunde.

Hannover (*Hannover*)—Gewerbe-Verein für das K. Hanover.

Königliche Bibliothek.

Naturhistorische Gesellschaft

Statistisches Bureau.

Heidelberg (*Baden*)—Naturhistorisch-medicinischer Verein.

Süddeutscher Apotheker Verein.

Universitäts-Bibliothek.

Hermannstadt (*Austria*)—Siebenbürgischer Verein für Naturwissenschaften.

Verein für Siebenbürgische Landeskunde.

Hohenleuben (*Saxony*)—Voigtländischer Alterthumsforschender Verein.

Innsbruck (*Austria*)—Ferdinandeum.

K. K. Landwirthschafts-Gesellschaft für Tirol und Vorarlberg.

Universitäts-Bibliothek.

Jauer (*Austria*)—Ökonomisch-patriotische Gesellschaft für das Fürstenthum Schweidnitz und Jauer.

Jena (*Saxe-Weimar*)—Kaiserliche Leopoldino-Carolinische Deutsche Akademie.

Redaction der Zeitschrift für Deutsche Landwirthe.

- Joachimsthal** (*Austria*)—Montanistischer Verein.
- Karlsruhe** (*Baden*)—Badischer Alterthums-Verein.
Centralstelle für die Landwirthschaft.
Gewerbe Verein.
Grossherzogliche Hofbibliothek.
- Kassel** (*Hessia*)—K. Commission für Landwirthschaftliche Angelegenheiten in Kurhessen.
Kurhessische Landes Bibliothek.
Redaction des Journals für Ornithologie.
Verein für Hessische Landeskunde.
- Kiel** (*Holstein*)—Landwirthschaftlicher Generalverein des Herzogthums Holstein.
S. H. L. Gesellschaft für die Sammlung und Erhaltung vaterl. Alterthümer.
Schleswig-Holstein-Lauenburgische Gesellschaft für vaterländische Geschichte.
Universitäts-Bibliothek.
Verein nordlich der Elbe für Verbreitung naturwissenschaftlicher Kenntniss.
- Klagenfurt** (*Austria*)—Geschichts-Verein für Kärnten.
Kärntnischer Industrie u. Gewerbe-Verein.
K. K. Landwirthschafts-Gesellschaft.
Naturhistorisches Museum.
- Klausenburg** (*Austria*)—Erdélyi Muzeum Egylet (Society of the Transylvanian Museum).
- Klausthal** (*Hannover*)—Naturwissensch. Verein "Maja."
- Koblenz** (*Prussia*)—Naturhistorischer Verein.
- Koburg** (*Saxe-Koburg-Gotha*)—Verein für Naturkunde im Herzogthum Sachsen-Koburg.
- Köln**—Hist. Verein für den Niederrhein.
Landwirthschaftlicher Verein.
- Königsberg** (*Prussia*)—Centralstelle der Landwirthschaftlichen Vereine des Regierungs-Bezirks Königsberg.
Östpreussische Physikalisch-Ökonomische Gesellschaft.
Physikalisch-Medicinische Gesellschaft.
Preuss. Provinzial Verein für Blinden Unterricht.
Sternwarte.
Universitäts-Bibliothek.

- Krakau** (*Austria*)—C. K. Towarzystwo Naukowe Krakowskie.
(Society of Science of Cracow.)
Uniwersytet Krakowski.
Sternwarte.
- Kremsmünster** (*Austria*)—Sternwarte.
- Laibach** (*Austria*)—Landes-Museum.
Histor. Verein für Krain.
- Leipzig** (*Saxony*)—Dr. Felix Flügel (*Agent Smithsonian Institution*).
Deutsche Morgenländische Gesellschaft.
F. A. Brockhaus' Verlagsbuchhandlung.
Fürstlich Jablonowski'sche Gesellschaft.
Königlich Sächsische Gesellschaft der Wissenschaften.
Naturforschende Gesellschaft.
Polytechnische Gesellschaft.
Stadt-Bibliothek.
Taubstummen Anstalt.
Universitäts-Bibliothek.
Universitäts-Sternwarte.
- Lemberg** (*Austria*)—Biblioteka Zakladu Ossolinskich.
- Liegnitz** (*Prussia*)—Landwirthschaftlicher Verein.
- Linz** (*Austria*)—Handels- und Gewerbekammer Oberösterreichs.
Museum Francisco-Carolinum.
- Lübeck** (*Hanse-Town*)—Bibliothek zu S. Catharinen.
Kunst- und Naturalien Cabinet.
Museum für Kunst und Natur.
Verein für lübeckische Geschichte.
- Ludwigshafen** (——)—Versammlung Rheinscher Naturforscher.
- Lüneburg** (*Hannover*)—Naturwissenschaftlicher Verein.
Alterthums-Verein.
- Luxembourg** (*Luxembury*)—Société des Sciences Naturelles
du Grand-Duché de Luxembourg.
- Mainz** (*Hessia*)—Grossherzoglich Handels-Kammer.
Rheinische Naturforschende Gesellschaft.
- Mannheim** (*Baden*)—Sternwarte.
Verein für Naturkunde.

Marburg (*Hessia*)—Gesellschaft zur Beförderung der gesammten Naturwissenschaften.

Sternwarte.

Universitäts-Bibliothek.

Marienwerder (*Prussia*)—Verein Westpreussischer Landwirthe.

Meiningen (*Saxe-Meiningen*)—Verein für Pomologie und Gartenbau.

Meissen (*Saxony*)—Naturwissenschaftliche Gesellschaft "Isis."

Mengeringhausen (*Waldeck*)—Landwirthschaftlicher Verein im Fürstenthume Waldeck.

Merseburg (*Prussia*)—Landwirthschaftlicher Central-Verein für die Provinz Sachsen.

München (**Munich**) (*Bavaria*)—Historischer Verein für Oberbaiern.

Königlich Baierische Akademie der Wissenschaften.

Königl. Botanischer Garten.

Königliche Hof- und Staats-Bibliothek.

K. Quartiermeister Stab.

Königl. Staats-Ministerium.

K. Universitäts-Bibliothek.

Landwirthschaftlicher Verein.

Polytechnischer Verein.

Sternwarte.

Verein für Naturkunde.

Münster (*Prussia*)—Landwirthschaftlicher Central-Verein für Westphalen.

Neu-Brandenburg (*Mecklenburg*)—Verein der Freunde der Naturgeschichte in Mecklenburg.

Nordhausen (*Prussia*)—Wissensch. Verein.

Nürnberg (*Bavaria*)—Germanisches Museum.
Naturhistorische Gesellschaft.

Offenbach (*Hessia*)—Verein für Naturkunde.

Oldenburg (*Oldenburg*)—Grossherzogliche Bibliothek.

Olmütz (*Austria*)—K. K. Studien Bibliothek.

Passau (*Bavaria*)—Naturhistorischer Verein.
Praktische Gartenbau-Gesell. in Baiern.

- Pesth** (*Austria*)—Geologische Gesellschaft für Ungarn.
 Kiralyi Magyar Termeszettudományi Társulat. (Ungarischer Naturwissenschaftlicher Verein).
 K. K. Obergymnasium.
 K. K. Sternwarte.
 Magyar Nemzeti Museum (Hungarian National Museum).
 Magyar Tudós Társaság. (Ungarische Gelehrte Gesellschaft.)
 Pesther Handels-Akademie.
 Universitäts-Bibliothek.
- Plauen** (*Saxony*)—Verein für Natur- und Heilkunde.
- Posen** (*Prussia*)—Bibliothèque de Kurnik.
 Raczyński Bibliothek.
- Potsdam** (*Prussia*)—Botanischer Verein für die Provinz Brandenburg.
 Landwirthschaftlicher Provinzial-Verein.
 Verein zur Beförderung des Seidenbaues.
- Prag** (*Austria*)—Böhmischer Gewerbe-Verein.
 Königlich Böhmisches Gesellschaft der Wissenschaften.
 Königlich Böhmisches Museum.
 K. K. Patriotisch-ökonomische Gesellschaft.
 K. K. Sternwarte.
 Medicinische Facultät.
 Naturhistorischer Verein "Lotos."
 Schafzüchter-Verein für Böhmen.
 Universitäts-Bibliothek.
- Premislaß** (bei **Labes**) (*Prussia*)—Pommersche Ökonomische Gesellschaft.
- Pressburg** (*Austria*)—Verein für Naturkunde.
- Regensburg** (*Bavaria*)—Historischer Verein für die Ober-Pfalz.
 K. Baierische Apotheker Verein.
 K. Baierische botanische Gesellschaft.
 Zoologisch-Mineralogischer Verein.
- Rostock** (*Mecklenburg*)—Naturwissenschaftliches Institut der Universität.
 Mecklenburgische Naturforschende Gesellschaft.
 Universitäts-Bibliothek.

- Salzburg** (*Austria*)—K. K. Landwirthschafts Gesellschaft.
Vaterländisches Museum Carolino-Augusteum.
- Schwerin** (*Mecklenburg-Schwerin*)—Grossherzogliches Statistisches Bureau.
Regierungs-Bibliothek.
Verein für Mecklenburgische Geschichte und Alterthumskunde.
- Sigmaringen** (*Prussia*)—Landwirthschaftliche Centralstelle des Vereins zur Beförderung der Landwirthschaft und der Gewerbe für die Hohenzollernschen Lande.
- Sondershausen** (*Schwarzburg-Sondershausen*)—Verein zur Beförderung der Landwirthschaft.
- Speier** (*Bavaria*)—Historischer Verein für Rheinbaiern.
Sternwarte des Königl. Lyzeums in Speier.
- Stettin** (*Prussia*)—Entomologischer Verein.
Gesellschaft für pommersche Geschichte und Alterthumskunde.
- Stuttgart** (*Württemberg*)—Seine Majestät der König von Württemberg.
Gartenbau-Gesellschaft "Flora."
Gesellschaft für die Weinverbesserung in Württemberg.
Gewerbe-Verein.
Heilgymnastisches Institut.
K. Centralstelle für die Landwirthschaft.
K. Centralstelle für Gewerbe und Handel.
K. Öffentliche Bibliothek.
K. Statistisch-topographisches Bureau.
Königliches Staats Archiv.
Verein Deutscher Eisenbahn-Verwaltungen.
Verein für Vaterländ. Naturkunde in Württemberg.
Verein zur Fürsorge für entlassene Strafgefangene.
Württembergischer Alterthums-Verein.
Württembergischer Ärztlicher Verein.
- Tharand** (*Saxony*)—Königlich Sächs. Akademie für Forst- und Landwirth.
- Trier** (*Prussia*)—Gesellschaft für nützliche Forschungen.
- Trieste** (*Austria*)—Civico Museo Ferdinando-Massimiliano.
Gartenbau-Gesellschaft des Litorale.

K. K. Hydrographische-Anstalt und Marine-Sternwarte (Director, Dr. Schaub).

K. K. Nautische Akademie (Director, H. Littrow).

Tübingen (*Württemberg*)—Landwirthschaftlicher Verein.
Universitäts-Bibliothek.

Vicenza (*Austria*)—Accademia Olimpica.

Weilburg (*Nassau*)—Verein Nassauischer Ärzte.

Weimar (*Saxe-Weimar*)—Geographisches Institut.
Verein für Blumistik und Gartenbau.

Wien (Vienna) (*Austria*)—Seine Kaiserlich-Königliche Majestät der Kaiser von Österreich.

Central-Verein Deutscher Zahnärzte.

Comité der Allgemeinen Versammlung von Berg- und Hüttenmännern.

Kaiserliche Akademie der Wissenschaften.

K. K. Central-Anstalt für Meteorologie u. Erd-Magnetism.

K. K. Direction des Administrativen Statistik.

K. K. Gartenbau-Gesellschaft.

K. K. Geographische Gesellschaft.

K. K. Geologische Reichsanstalt.

K. K. Handels-Ministerium.

K. K. Hofbibliothek.

K. K. Hof- und Staatsdruckerei.

K. K. Landwirthschafts-Gesellschaft.

K. K. Naturalien Kabinet.

K. K. Ober-Gymnasium zu den Schotten.

K. K. Orientalische Akademie.

K. K. Sternwarte.

K. K. Zoologisch-Botanische Gesellschaft.

Niederösterreichische Gewerbe-Verein.

Österr. Ingenieur-Verein.

Polytechnische Gesellschaft.

Redaction der Entomologischen Monatsschrift.

Redaction der Österreichischen Zeitschrift für praktische Heilkunde.

Universitäts-Bibliothek.

Wiesbaden (*Nassau*)—Gewerbe-Verein für das Herzogthum Nassau.

Verein für Nassauische Geschichte u. Alterthums-
kunde.

Verein für Naturkunde.

Worms (*Hesse Darmstadt*) Grossherz. Handels-Kammer.

Verein Nassauischer Land- und Forstwirth.

Würzburg (*Bavaria*)—Historischer Verein von Unterfranken
und Aschaffenburg.

Physikalisch-Medicinische Gesellschaft.

Polytechnischer Verein.

Universitäts-Bibliothek.

Zara (*Austria*)—Società Economica di Dalmazia.

SWITZERLAND.

Allgemeine Schweizerische Gesellschaft für die gesammten Natur-
wissenschaften. (See *Bern*.)

Versammlung Schweizerischer Naturforscher.

Aarau—Aargauische Naturforschende Gesellschaft.

Basel—Gesellschaft für vaterländische Alterthümer.

Gesellschaft zur Beförderung des Guten und Gemein-
nützigen.

Naturforschende Gesellschaft.

Universitäts-Bibliothek.

Bern—Allgemeine Schweizerische Gesellschaft für die gesammten
Naturwissenschaften.

Conseil Fédéral Suisse. (Schweizerisches Bundes
Rath.)

Eidgenössisches Statistisches Bureau.

Kanton-Schule.

Naturforschende Gesellschaft.

Sternwarte.

Universitäts-Bibliothek.

Chur—Naturforschende Gesellschaft Graubündens.

Genève—Bibliothèque de la Ville.

Institut National Genevois.

Observatoire.

Société des Arts de Genève.

Société Genevoise d'Utilité Publique.

Société d'Histoire et d'Archéologie de Genève.

Société de Géographie.
Société de Physique et d'Histoire Naturelle.
Société Médicale.

Lausanne—Asile des Aveugles de Lausanne.
Bibliothèque Cantonale Vaudoise.
Société d'Histoire de la Suisse Romande.
Société Vaudoise des Sciences Naturelles.
Société Industrielle d'Horlogerie.

Neuchatel—Société des Sciences Naturelles.

St. Gallen—Naturwissenschaftliche Gesellschaft.

Sion—Société Valaisanne des Sciences Naturelles.

Solothurn—Naturforschende Gesellschaft.

Yverdon—Institut des Sourds-Muets à Yverdon.

Zürich—École Polytechnique Fédérale.
Gesellschaft für Vaterländische Alterthümer.
Naturforschende Gesellschaft.
Universitäts-Bibliothek.

BELGIUM.

Anvers (Antwerp)—Académie d'Archéologie.
Société de Pharmacie.
Société Royale des Sciences.

Bruxelles (Brussels)—Académie Royale des Sciences, des
Lettres et des Beaux-Arts de Belgique.
Bibliothèque Royale de Belgique.
Établissement Géographique de Bruxelles.
Société Centrale d'Agriculture de Belgique.
Société Paléontologique de Belgique.
Observatoire Royal.
Société des Gens de Lettres Belges.
Société Royale Linnéenne de Bruxelles.
Société de Flora.

Gand (Ghent)—Université.
Société Royale d'Agriculture et de Botanique.

Liège—Société Royale des Sciences.
Société des Sciences Naturelles.

Louvain—Université Catholique.

Mons—Société des Sciences, des Arts et des Lettres du Hainaut.

FRANCE.

Institut des Provinces de France.

Congrès Scientifique de France.

Abbeville—Société Linnéenne du Nord du France.
Société Impériale d'Emulation.

Aix (*Bouche du Rhone*)—Académie des Sciences, Agriculture,
Arts et Belles-Lettres.

Amiens—Société des Antiquaires de Picardie.
Société Linnéenne du Département de Maine-et-Loire.

Angers—Société d'Agriculture, Sciences et Arts.
Société Académique de Maine-et-Loire.

Angoulême—Société d'Agriculture, Arts et Commerce du
Dép. de la Charente.

Arcueil—Société d'Arcueil.

Arras—Société d'Arras.

Bayeux—Société d'Agriculture, Sciences, Arts et Belles-Lettres.

Beauvais—Société Académique d'Archéologie, Sciences, et
Arts du Département de l'Oise.

Besançon—Académie des Sciences, Belles-Lettres et Arts.

Béziers (*Hérault*)—Société Archéologique.

Bordeaux—Acad. Impériale des Sciences, Belles-Lettres et Arts.
Chambre de Commerce.
Société d'Horticulture de la Gironde.
Société des Sciences Physiques et Naturelles.
Société Philomathique de Bordeaux.
Société Linnéenne de Bordeaux.

Brest—Bibliothèque de la Marine Impériale.

Caen—Académie des Sciences, Arts et Belles-Lettres.
Société d'Agriculture et de Commerce de Caen.
Société des Antiquaires de Normandie.
Société Linnéenne de Normandie.
Société de Médecine de Caen.

Chambéry—Société Imp. Académique de Savoie.
Académie Impériale de Savoie.

Châlons-sur-Marne—Société d'Agriculture, Commerce et Sciences de la Marne.

Cherbourg—Société Académique de Cherbourg.
Société Imp. des Sciences Naturelles de Cherbourg.

Clermont-Ferrand—Académie des Sciences, Belles-Lettres et Arts.

Dijon—Académie des Sciences, Arts et Belles-Lettres de Dijon.
Société d'Agriculture et d'Industrie Agricole du Département de la Côte d'Or.

Douai—Muséum d'Histoire Naturelle.

Dunkerque—Société Dunkerquoise pour l'Encouragement des Sciences.

Evreux—Société Libre d'Agriculture, Sciences, Arts et Belles-Lettres de l'Eure.

Le Mans—Société d'Agriculture, Science et Arts de la Sarthe.

Lille—Société Impériale des Sciences, de l'Agriculture et des Arts.

Lyon—Société Impériale de l'Agriculture, Histoire Naturelle et Arts Utiles de Lyon.

Académie des Sciences, Belles-Lettres et Arts de Lyon.

Société Linnéenne de Lyon.

Société Hydrométrique de Lyon.

Mâcon—Acad. de Mâcon : Soc. des Arts, Belles-Lettres et d'Agriculture.

Marseilles—Académie des Sciences, Lettres et Arts.
Observatoire.

Mende—Société d'Agriculture, Industrie, Sciences et Arts du Département de la Lozère.

Metz—Académie Impériale de Metz.
Société d'Histoire Naturelle du Département de la Moselle.
Société des Sciences Médicales.

Montpellier—Société Archéologique de Montpellier.
Académie des Sciences et Lettres de Montpellier.
Société Générale d'Encouragement à la Sericulture.

Moulins—Société d'Horticulture de l'Allier.

Mulhouse—Société Industrielle.

Nancy—Académie de Stanislas.

Nîmes—Académie du Gard.

Orléans—Société des Sciences, Belles-Lettres et Arts d'Orléans.
Société Archéologique de l'Orléanais.

Paris—Sa Majesté Impériale l'Empereur des Français.
Gustave Bossange et Co. (*Agents of the Smithsonian Institution*).

Académie Impériale de Médecine.

American Library.

Bibliothèque de la Ville de Paris.

Bibliothèque du Jardin des Plantes.

Bibliothèque Impériale.

Bureau des Longitudes.

Conservatoire des Arts et Métiers.

Dépot des Cartes et Plans.

École Impériale des Mines.

École Impériale et Spéciale des Langues orientales
vivantes.

École Polytechnique.

Institut de France.

Institut Historique de France.

Ministère de la Guerre.

Ministère de la Marine.

Ministère de l'Instruction Publique et des Cultes.

Observatoire Impérial.

Société d'Anthropologie.

Société des Antiquaires.

Société Asiatique.

Société Botanique de France.

Société de Biologie.

Société de Géographie.

Société de l'École des Chartes.

Société d'Encouragement pour l'Industrie Nationale.

Société Entomologique.

Société de Pharmacie.

Société Française pour la conservation des Monu-
ments Historiques.

Société Française de Statistique Universelle (*Acad.
Nat. Agr. Manufactur. et Comerciale*).

Société Géologique de France.
 Société Impériale et Centrale d'Horticulture de Paris.
 Société d'Horticulture de la Seine.
 Société Médicale Allemande de Paris.
 Société Météorologique de France.
 Société Impériale et Centrale d'Agriculture.
 Société Orientale de France.
 Société Philomatique.
 Société Polytechnique.
 Société de Secours des Amis des Sciences.
 Société Zoologique d'Acclimatation.

Puy—Société d'Agriculture, Sciences, Arts et Commerce.

Reims—Académie de Reims.

Muséum d'Histoire Naturelle de Reims.

Société des Sciences Naturelles.

Rouen—Académie des Sciences, Belles-Lettres et Arts de Rouen.

Saint-Quentin—Société des Sciences, Arts, Belles-Lettres, et
 Agriculture.

Société Académique.

Strasbourg—Société des Sciences Naturelles de Strasbourg.

Société des Sciences, Agriculture et Arts du Bas-
 Rhin.

Tarbes—Société Académique des Hautes-Pyrénées.

Toulon—Académie Navale.

Toulouse—Académie des Sciences, Inscriptions et Belles-Lettres
 de Toulouse.

Société Impériale de Médecine, Chirurgie et Phar-
 macie de Toulouse.

Tours—Société d'Agriculture, des Sciences, des Arts et des Belles-
 Lettres.

Troyes—Société d'Agriculture, Sciences, Arts, et Belles-Lettres
 de l'Aube.

ITALY.

Arezzo (*Tuscany*)—Accademia di Scienze, Lettere ed Arti.

Bergamo—Società Industriale Bergamasca.

Bologna—Accademia delle Scienze dell' Istituto di Bologna.

Regio Istituto Geologico.

Repertorium Italicum di Bianconi.

Scuola Anatomica di Bologna.

Società agraria della Provincia di Bologna.

Società Medico-Chirurgica.

Brescia—Ateneo di Brescia.

Catania—Accademia Gioenia di Scienze Naturali.

Firenze (Florence)—Accademia del Cimento.

Accademia della Crusca.

Accademia economico-agraria dei Georgofili.

Biblioteca Magliabecchiana.

Osservatorio.

Reale Museo di Fisica e Storia Naturale di Firenze.

Genova (Genoa)—Accademia delle Scienze, Lettere, ed Arti.

Accademia Medico-chirurgica di Genova.

Arch. per la Zoologia, l'Anatomia e la Physiologia.

Osservatorio.

Università.

Lucca—Reale Accademia Lucchese di Scienze, Lettere ed Arti.

Milano—Associazione Agricola Lombarda di Corte del Palasio.

Ateneo di Scienze, Lettere ed Arti.

Istituto Tecnico.

Museo Civico di Storia Naturale.

Museo di Storia Naturale dei fratelli Villa.

Nazionale Biblioteca di Brera.

Ospedale Maggiore di Milano.

Osservatorio.

Reale Accademia di Belle Arti.

Reale Istituto nazionale di Scienze, Lettere ed Arti.

Società d'Incoraggiamento d'Arti e Mestieri.

Società Geologica.

Società Italiana di Scienze Naturali.

Società patriottica d'Incoraggiamento di Scienze, Lettere ed Arti.

Modena—Accademia di Scienze, Lettere et Arti.

Osservatorio.

Società Italiana delle Scienze.

Modigliana—Accademia Scientifico-letteraria.

Napoli (Naples)—Accademia degli Aspiranti Naturalisti.

Biblioteca Reale.

Osservatorio.

Reale Accademia delle Scienze e Belle Lettere.

R. Istit. d'Incoraggiamento alle Scienze Naturali.

R. Orto Botanico di Napoli.

Regale Accademia Ercolanese di Archeologia.

Padova (Padua)—Imperiale Regia Accademia di Scienze,
Lettere ed Arti di Padova.

Osservatorio.

Palermo—Accademia Palermitana di Scienze e Lettere.

Osservatorio.

Società di Acclimazione e di Agricoltura in Sicilia.

Pesaro—Accademia Agraria di Pesaro.

Pisa—Accademia Valdarnese del Poggio.

University Library.

Ravenna—Società Ravennate.

Roma—Accademia Pontificia dei Nuovi Lincei.

Accademia Romana di Archeologia.

Biblioteca Vaticana.

British Academy of Fine Arts.

Corrispondenza Scientifica in Roma.

Osservatorio Astronomico del Collegio Romano.

Siena—Accademia delle Scienze.

Università (including Osservatorio).

Torino (Turin)—Accademia Reale delle Scienze.

Accademia Reale di Agricoltura.

Accademia Reale Medico-Chirurgica.

Osservatorio.

Regia Biblioteca.

Regio Deputazione Sovra gli Studii di Storia Patria.

Regio Museo di Storia Naturale.

Regia Università.

Udine—Associazione Agraria Friulana.

Venezia (Venice)—Accademia di Belle Arti.

Ateneo Veneto.

Biblioteca Marciana.

I. R. Istituto Veneto di Scienze, Lettere ed Arti.
 Mechitaristen-Collegium.

Verona—Accademia d'Agricoltura, Commercio ed Arti di
 Verona.

PORTUGAL.

Coimbra—University.

Lisboa (Lisbon)—Academia Real das Sciencias.
 Biblioteca Nacional.
 Observatory.

SPAIN.

Barcelona—Real Academia de Buenas Letras de Barcelona.

Madrid—Acad. de las tres Nobles Artes de San Fernando.
 Biblioteca Real.
 Real Academia de Ciencias de Madrid.
 Real Academia de Ciencias Morales y Politicas.
 Real Academia de la Historia.
 Real Academia Española.

San Fernando—Observatorio Marino.

GREAT BRITAIN AND IRELAND.

Aberdeen—Observatory.
 Philosophical Society.

Armagh—Observatory. (Care of Rev. Dr. Robinson.)

Bath—Bath and West of England Agricultural Society.

Belfast—Belfast Institution.
 Chemico-Agricultural Society of Ulster.
 Library of Queen's College.
 Natural History and Philosophical Society.

Berwick-on-Tweed—Berwickshire Naturalists' Club.

Bristol—Bristol Institution for the Advancement of Science,
 Literature and the Fine Arts.
 City Library.

Cambridge—Cambridge Antiquarian Society.
 Cambridge Free Library.
 Cambridge Observatory.

Cambridge Philosophical Society.

University Library.

Cirencester—Royal Agricultural College.

Cork—Cuvierian Society.

Library of Queen's College.

Royal Cork Institution.

Dublin—Catholic College of Ireland.

Chemical Society of Dublin.

Dublin University Philosophical Society.

Dublin University Zoological and Botanical Association.

Geological Society of Dublin.

Irish Archaeological and Celtic Society.

Library of Trinity College.

Observatory.

Royal Dublin Society.

Royal Irish Academy.

Royal Zoological Society of Ireland.

Durham—Observatory.

Edinburgh—Bannatyne Club.

Botanical Society.

Caledonian Horticultural Society.

Edinburgh New Philosophical Journal.

Geological Society.

Highland and Agricultural Society of Scotland.

Library of Faculty of Advocates.

Meteorological Society of Scotland.

Royal Institution for Encouragement of Fine Arts
in Scotland.

Royal Observatory.

Royal Physical Society.

Royal Scottish Society of Arts.

Royal Society of Edinburgh.

Sir David Brewster.

Society of Antiquaries of Scotland.

Spalding Club.

University Library.

Eton—Eton College.

- Falmouth**—Royal Cornwall Polytechnic Society.
- Galway**—Library of Queen's College.
- Glasgow**—Andersonian Institute.
Philosophical Society.
University Library.
Geological Society.
- Greenwich**—Royal Observatory.
- Hull**—Royal Institution.
- Isle of Wight**—Philosophical and Scientific Society.
- Kensington**—South Kensington Museum.
- Kew**—Library of Kew Gardens.
Observatory.
- Kilkenny**—Kilkenny and Southeast of Ireland Archaeological Society.
- Leeds**—Geological and Polytechnic Society of the West Riding of Yorkshire.
Leeds Philosophical and Literary Society.
- Leicester**—Leicester Literary and Philosophical Society.
- Liverpool**—Free Public Library, Museum, and Gallery of Art, of the Town of Liverpool.
Geological Society.
Historic Society of Lancashire and Cheshire.
Literary and Philosophical Society.
Liverpool Naturalist's Field Club.
Liverpool Polytechnic Society.
Observatory.
Royal Institution.
- London**—Her Majesty the Queen of Great Britain and Ireland.
William Wesley, Bookseller, 2 Queen's Head Passage, Paternoster Row, E. C. (*Agent Smithsonian Institution*).
Aborigines Protection Society.
Annals and Magazine of Natural History.
Archæological Institute of Great Britain and Ireland.
Architectural Publication Society.
Athenæum Club.
Mr. Bishop's Observatory, Regent's Park, London.
Board of Admiralty.

Board of Trade.
British Archæological Association.
British Association for the Advancement of Science.
British Government.
British Museum.
Camden Society.
Chemical Society of London.
Department of Practical Art.
Duke of Northumberland.
Entomological Society.
Ethnological Society of London.
Geological Association.
Geological Society of London.
Great Seal Patent Office.
Hakluyt Society.
Horticultural Society of London.
Hydrographical Office.
The Ibis, a Magazine of General Ornithology.
Institute of Actuaries of Great Britain and Ireland.
Institution of Civil Engineers.
Library of the Hon. the East India Company.
Library of Committee of Privy Council for Trade.
Library of Corporation of City of London.
Library of the House of Commons.
Linnæan Society.
London and Middlesex Archæological Society.
London, Edinburgh, and Dublin Philosophical Magazine.
London Institution (Finsbury Circus).
London Library.
London Mechanics' Institution.
Meteorological Society.
Microscopical Society.
Museum of Practical Geology.
National Association for the Promotion of Social Science.
Nautical Almanac Office.
Numismatic Society.
Palæontographical Society.
Pharmaceutical Society.

- Philological Society.
 Photographic Society.
 Ray Society.
 Redhill Observatory.
 Royal Agricultural Society of England.
 Royal Asiatic Society.
 Royal Astronomical Society.
 Royal Botanic Society.
 Royal College of Surgeons of England.
 Royal Geographical Society of London.
 Royal Institution of Great Britain.
 Royal Medical and Chirurgical Society.
 Royal Society of Literature.
 Royal Society of London.
 Society of Antiquaries of London.
 Society for the Encouragement of Arts, Manufactures,
 and Commerce.
 Statistical Society of London.
 Syro-Egyptian Society.
 University College.
 Zoological Society of London.
- Manchester**—Literary and Philosophical Soc. of Manchester.
 Geological Society.
 Manchester Field Naturalists' Society.
 Manchester Free Library and Museum.
- Markree** (Collooney, Ireland)—Observatory (of Mr. Edward Cooper).
- Maynooth**—College Library.
- Newcastle-upon-Tyne**—Literary and Philosophical Society.
 Antiquarian Society.
 Natural History Society of Northumberland, Durham,
 and Newcastle-upon-Tyne.
 Tyneside Naturalists' Field Club.
- Norwich**—Norfolk and Norwich Museum.
- Oxford**—Ashmolean Society.
 Bodleian Library.
 Oxford Free Library.
 Oxford University Entomological Society.
 Radcliffe Observatory.

Peebles—The Chambers Institution.

Penzance—Royal Geological Society of Cornwall.

Plymouth—Plymouth Museum.

Red Hill—R. Carrington's Observatory.

St. Andrews—University Library.

Salford—Salford Borough Royal Museum and Library.

Southampton—Ordnance Trigonometrical Survey of Great Britain and Ireland.

Stonyhurst—Stonyhurst College.

Taunton—Somersetshire Archæological and Natural History Society.

Woolwich—Royal Military Academy.
Royal Artillery Institution.

York—York Philosophical Society.

GREECE.

Athens—Observatory.
University Library.

TURKEY.

Belgrad (*Serbia*)—Drushtvo srbske Slovesnosti (Society of Serbian Literature).

Praviteljstvena Biblioteka (State Library).
Serbische Literatur Gesellschaft.

Constantinople—His Imperial Majesty the Sultan.
Société Orientale de Constantinople.

AFRICA.

Cape Town—Public Library.
Royal Observatory.
South African Museum.

Constantine—Société Archéologique de la Province de Constantine.

Grand Cairo—Bibliothèque Centrale.
The Egyptian Society.

Liberia—Government Library.

Mauritius—Société d'Histoire Naturelle de l'Isle Maurice.

St. Helena—St. Helena Library.

ASIA.

Allahabad—Mission College.

Batavia—Bataviaasch Genootschap van Kunsten en Wetenschappen.

Geneeskundige Vereeniging in Nederlandsch Indie
(Medical Association).

Natuurkundige Vereeniging in Nederlandsch Indie.

Nederlandsch Indische Maatschappij van Nijverheid
(Industrial Society).

Bombay—Bombay Government.

Bombay Mechanic's Institution.

Geographical Society.

Magnetical and Meteorological Observatory.

Royal Asiatic Society.

Calcutta—Asiatic Society.

Agricultural and Horticultural Society of India.

Geological Survey of India.

Medical and Physical Society.

Ceylon—Asiatic Society.

Batticotta Seminary.

Hong Kong—Asiatic Society of China.

Madras—Literary Society.

Observatory.

Manilla—Royal Economical Society of the Phillippine Islands.

Neilgherries—Public Library.

Rourkee—Thomason College.

Shanghai—Royal Asiatic Society of China (North China Branch).

AUSTRALIA.

Hobarton (*Tasmania*)—Magnetic and Meteorological Observatory.

Mechanics' Institute.

Public Library.

Royal Society of Tasmania.

Launceston (*Tasmania*)—Launceston Public Library.

Mechanics' Institute and School of Arts.

Royal Society (branch of that at Hobarton).

Melbourne—National Museum of Victoria.

Philosophical Society of Victoria.

University of Melbourne.

Sydney—Australian Horticultural and Agricultural Society.

Observatory.

Philosophical Society of New South Wales.

University of Sydney.

POLYNESIA.

Honolulu (*Sandwich Islands*)—Royal Hawaiian Agricultural Society.

AMERICA (exclusive of British America).

Bogota (*New Grenada*)—Sociedad Economica de Amigos del Pais.

Sociedad de Naturalistas Neo-Granadinos.

Caracas (*Venezuela*)—Sociedad Economica de Amigos del Pais.

Chuquisaca (*Bolivia*)—University.

Georgetown (*British Guiana*)—Observatory.

Guatemala (*Guatemala*)—Sociedad Economica de Amigos del Pais.

Habana (*Cuba*)—Real Sociedad Economica de la Habana.

Real Universidad de la Habana.

Kingston (*Jamaica*)—Royal Society of Arts of Jamaica.

Lima (*Peru*)—Universidad.

Mexico (*Mexico*)—Colegio de Minerea.

El Museo Nacional.

Escuela de Agricultura.

Sociedad Mexicana de Geografia y Estadistica.

Paramaribo (*Surinam*)—Surinaamsche Koloniale Bibliotheek.

Rio Janeiro (*Brazil*)—British Library.

Historical and Geographical Institute of Brazil.

Imperial Brazilian Historical Society.

Nautical Observatory.

Royal Geographical Society.

Sociedad Auxiliadora de Industria Nacional.

Santiago (*Chile*)—Academia Militar.

Biblioteca Nacional.

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History and Jurisprudence.

147. **Zwolle.** Vereen. van O. Rigten Geschiedenis. 7.

History and Philology.

31. **Kjöbenhavn.** K. D. S. Fedrelandets Historie og Sprog. 2.

History and Statistics.

275. **Frankfurt-an-der-Oder.** Historisch-Statist. Ver. 11.

Horticulture.

199. **Berlin.** Ver. Beförd. des Gartenbaues. 9.
 215. **Braunschweig.** Garten-Verein. 10.
 243. **Darmstadt.** Gartenbau-Ver. 10.
 266. **Eldena.** Gartenbau-Ver. 11.
 272. **Erfurt.** Gartenbau-Verein. 11.
 277. **Frankfurt-am-Main.** Gartenbau-Ges. "Flora." 11.
 302. **Gotha.** Th. Gartenbau-Ver. 12.
 432. **Passau.** P. Gartenbau-Gesell. 16.
 477. **Stuttgart.** Gartenbau-Ges. "Flora." 18.
 494. **Trieste.** Gartenbau-Ges. 18.
 502. **Weimar.** Ver. f. Blumistik und Gartenbau. 19.
 509. **Wien.** K. K. Gartenbau-Ges. 19.
 611. **Bordeaux.** Société d'Horticulture. 22.
 648. **Moulins.** Soc. d'Horticulture. 23.
 686. **Paris.** Soc. I. C. d'Horticulture. 25.
 687. Soc. d'Horticulture de la Seine. 25.
 835. **Edinburgh.** Cal. Horticultural Soc. 29.
 899. **London.** Horticultural Soc. 31.

Horticulture. *See* **Agriculture.**

Horticulture. *See* **Botany.**

Horticulture and Pomology.

159. **Altenburg.** Pomologische Ges. 8.
 408. **Meiningen.** Ver. f. Pomologie u. Gartenbau. 16.

Horticultural Gardens. *See* **Botanical Gardens.**

Horticultural Schools.

68. **Odessa.** Glavnoé Outchilitché Sadovodstva. 4.

Hospitals. *See* **Medicine and Surgery.**

Hydraulics.

637. **Lyon.** Soc. Hydrométrique. 23.

Hydrography.

32. **Kjöbenhavn.** K. D. Sökort-Archivet. 2.
 82. **St. Petersburg.** Hidrog. Dep. Morskago Minist. 4.
 900. **London.** Hydrographical Office. 31.

Hydrography. *See* **Astronomy.**

Industry. *See* **Economy; Science in General.**

Industry, Popular.

111. **Amsterdam.** Vereen. Volksvlijt. 6.
 172. **Berlin.** C. Ver. f. das Wohl der arbeitenden Klassen. 8.
 178. Gewerbe-Institut. 8.
 200. Ver. z. Beförd. d. Gewerbe. 9.
 219. **Breslau.** Gewerbe-Verein. 10.
 245. **Darmstadt.** G. H. Gewerbe-Ver. 11.
 256. **Dresden.** Gewerbe-Verein. 11.
 287. **Fürth.** Gewerbe-Verein. 12.
 400. **Mainz.** G. Handels-Kammer. 15.
 447. **Prag.** B. Gewerbe-Verein. 17.
 479. **Stuttgart.** Gewerbe-Verein. 18.
 521. **Wien.** N. Gewerbe-Ver. 19.
 527. **Wiesbaden.** Gewerbe-Verein. 19.
 649. **Mulhouse.** Société Industrielle. 23.
 680. **Paris.** Soc. d'E. l'Industrie Nationale. 24.
 711. **Bergamo.** Soc. Industriale Berg. 25.
 989. **Batavia.** Ned. Ind. Maatschappij van Nijverheid. 34.
 1043. **Rio Janeiro.** Soc. Auxili. de Industria Nacional. 36.

Industry and Trade.

154. **Agram.** Handels und Gewerbekammer. 8.
 307. **Grätz.** S. Industrie- und Gewerbe-Ver. 12.
 325. **Hannover.** Gewerbe-Verein. 13.
 344. **Karlsruhe.** Gewerbe-Verein. 14.
 356. **Klagenfurt.** K. Industrie u. Gewerbe-Ver. 14.
 390. **Linz.** Handels- u. Gewerbekammer. 15.

439. **Pesth.** P. Handels-Akademie. 17.
 482. **Stuttgart.** K. C. f. Gewerbe und Handel. 18.
 512. **Wien.** K. K. Handels-Ministerium. 19.
 530. **Worms.** G. Handels-Kammer. 20.
 884. **London.** Board of Trade. 31.

Industry and Useful Knowledge.

153. **Aachen.** V. nützliche Wissensch. und Gewerbe. 8.

Journals of Universities.

2. **Skandinavia.** Nordisk Universitets-Tidskrift. 1.

Jurisprudence. *See History.*

Knowledge, Useful. *See Industry.*

Libraries.

13. **Stockholm.** Riksbiblioteket. 1.
 19. **Westerås.** Bibliot. Arosiensis. 2.
 26. **Reykjavik.** Íslands Stiftingsbókasafn. 2.
 30. **Kjöbenhavn.** K. Bibliothek. 2.
 69. **Odessa.** Gorodskáia Poublietchnaia Biblioteka. 4.
 73. **Orenburg.** Bibliot. publique. 4.
 76. **Riazan.** Publitschnaja Biblioteka. 4.
 85. **St. Petersburg.** I. Publitschnaja Biblioteka. 5.
 99. **Tiflis.** Bibliot. Publique. 5.
 102. **Toula.** Bibliot. Publique. 5.
 110. **Amsterdam.** Stadsbibliotheek. 6.
 114. **Arnhem.** O. Bibliotheek. 6.
 115. **Bois-le-Duc.** Bibliotheek. 6.
 119. **Deventer.** Bibliotheek. 6.
 120. **s'Gravenhage.** K. Bibliotheek. 6.
 138. **Middelburg.** P. Bibliotheek. 7.
 179. **Berlin.** K. Bibliothek. 8.
 216. **Bremen.** Stadt-Bibliothek. 10.
 246. **Darmstadt.** G. Hof-Bibliothek. 11.
 257. **Dresden.** K. Bibliothek. 11.
 300. **Gotha.** H. Bibliothek. 12.
 316. **Hamburg.** Commerz-Bibliothek. 13.
 319. **Stadt-Bibliothek.** 13.
 326. **Hannover.** K. Bibliothek. 13.
 345. **Karlsruhe.** G. Hofbibliothek. 14.
 347. **Kassel.** K. Landes Bibliothek. 14.
 384. **Leipsic.** Stadt-Bibliothek. 15.
 388. **Lemberg.** Biblioteka Z. O. 15.
 392. **Lübeck.** Bibliothek. 15.
 415. **München.** K. Hof- und Staats-Bibliothek. 16.
 429. **Oldenburg.** G. Bibliothek. 16.
 430. **Olmütz.** K. K. Studien Bibliothek. 16.

442. **Posen.** Bibliothèque de Kurnik. 17.
 443. **Posen.** Raczyński Bibliothek. 17.
 468. **Schwerin.** R. Bibliothek. 18.
 483. **Stuttgart.** K. Ö. Bibliothek. 18.
 513. **Wien.** K. K. Hofbibliothek. 19.
 552. **Genève.** Bibliothèque. 20.
 562. **Lausanne.** Bibliothèque. 21.
 579. **Bruxelles.** Bibliothèque Royale. 21.
 615. **Brest.** Bibliothèque. 22.
 657. **Paris.** American Library. 24.
 658. **Bibliothèque de la Ville.** 24.
 660. **Bibliothèque Imp.** 24.
 723. **Firenze.** Biblioteca Magliab. 26.
 737. **Milano.** N. Biblioteca di Berra. 26.
 751. **Napoli.** Biblioteca Reale. 27.
 768. **Roma.** Biblioteca Vaticana. 27.
 778. **Torino.** Regia Biblioteca. 27.
 785. **Venezia.** Biblioteca Marciana. 27.
 791. **Lisboa.** Biblioteca Nacional. 28.
 795. **Madrid.** Biblioteca Real. 28.
 811. **Bristol.** City Library. 28.
 813. **Cambridge.** Cambr. Free Library. 28.
 839. **Edinburgh.** Lib. Faculty Advocates. 29.
 881. **London.** Athenæum Club. 30.
 892. **Duke of Northumberland.** 31.
 904. **L. East India Company.** 31.
 905. **L. Comm. Privy Council for Trade.** 31.
 906. **L. Corpora'n City of Lond.** 31.
 907. **L. House of Commons.** 31.
 911. **London Institution.** 31.
 912. **London Library.** 31.
 955. **Oxford.** Oxford Free Library. 32.
 973. **Belgrad.** Praviteljstvena Biblioteka. 33.
 976. **Cape Town.** Public Library. 33.
 980. **Grand Cairo.** Bibliothèque Centrale. 33.
 982. **Liberia.** Government Library. 33.
 984. **St. Helena.** St. Helena Library. 34.
 1005. **Neilgherries.** Public Library. 34.
 1010. **Hobarton.** Public Library. 35.
 1012. **Launceston.** L. Public Library. 35.
 1037. **Paramaribo.** S. Koloniale Bibliothek. 35.
 1038. **Rio Janeiro.** British Library. 36.
 1045. **Santiago.** Biblioteca Nacional. 36.

Libraries, Naval (Russian).

41. **Cronstadt.** C. flotskaia Biblioteka. 3.
 42. **Morskaia Biblioteka.** 3.

Libraries, Gallery of Art, Museums.

867. **Liverpool.** Free Pub. Library, Mus., and Gal. of Art. 30.

888. London. British Museum. 31.
 945. Manchester. Free Lib. and Museum. 32.
 963. Salford. S. B. R. Mus. and Library. 37.

Libraries. *See* Museums.

Literature.

15. Stockholm. Svenska Akademien. 2.
 37. Kjöbenhavn. Samf. Danske Literaturs
 Fremme. - 3.
 75. Reval. Esth. litterarische Ges. 4.
 116. Bois-le-Duc. Soc. Littéraire. 6.
 133. Leiden. Maat. Nederlands. Letterk. 7.
 584. Bruzelles. Soc. Gens de Lett. Belges. 21.
 934. London. R. Society of Literature. 32.
 972. Belgrad. Drushtvo srbske Slovéssnosti.
 33.
 1002. Madras. Literary Society. 34.

Literature. *See* Art.

Literature, Oriental. *See* Oriental Societies.

Longitudes.

661. Paris. Bureau des Longitudes. 24.

Magnetism and Meteorology (Observatories). *See* Observatories.

Mathematical Science.

112. Amsterdam. W. Gen.: "Een onvermoide
 Arbeid komt alles te boven." 6.

Marine, Committee of.

92. St. Petersburg. Morskoi-Outchenoi Com-
 mitet. 5.

Marine, Ministry of.

93. St. Petersburg. Morskoje Ministerstvo.
 5.
 670. Paris. Minist. de la Marine. 24.

Medicine and Natural History.

141. Utrecht. Archiv Beit. Natur- und Heil-
 kunde. 7.
 208. Bonn. N. G. Natur u. Heilkunde. 9.
 254. Dresden. Ges. Natur- u. Heilkunde. 11.
 289. Giessen. O. Ges. Natur- u. Heilk. 12.
 329. Heidelberg. Naturhistor.-medizin. Ver.
 13.
 441. Plauen. Ver. Natur- und Heilkunde. 17.

Medicine and Physics.

130. Hoorn. Soc. Medico-Physica. 7.

213. Braunsberg. Physikalisch-Medicin. Ges.
 9.

274. Erlangen. Physikalisch-Medicinische
 Ges. 11.

367. Königsberg. Physik.-Medicin. Ges. 14.
 533. Würzburg. Physikal.-Medicin. Ges. 20.
 998. Calcutta. Medical and Physical Soc. 34.

Medicine and Surgery.

14. Stockholm. Schwed. Ges. der Aertze. 2.
 49. Helsingfors. Finske Läkare Sällsk. 3.
 78. Riga. Ges. Praktischer Ärzte. 4.
 105. Warschau. Acad. Médi.-Chirurgicale. 5.
 276. Frankfurt-am-Main. Aertzlicher Ver.
 11.
 452. Prag. Medicinische Facultät. 17.
 480. Stuttgart. Heilgymnastisches Inst. 18.
 490. W. Ärztlicher Verein. 18.
 500. Weilburg. Ver. Nassauischer Ärzte. 19.
 525. Wien. Red. der Ö. Zeit. praktische Heil-
 kunde. 19.
 560. Genève. Société Médicale. 21.
 620. Caen. Soc. de Médecine. 22.
 644. Metz. Soc. des Sciences Médicales. 23.
 656. Paris. Acad. Imp. de Médecine. 24.
 688. Soc. Médicale Allemande. 25.
 707. Toulouse. Soc. I. Médecine, Chirurgie et
 Pharmacie. 25.
 715. Bologna. Scuola Anatomica. 26.
 717. Soc. Medico-Chirurgica. 26.
 727. Geneva. Ac. Medico-chirurgica. 26.
 738. Milano. Ospedale Maggiore. 26.
 776. Torino. Ac. R. Medico-Chirurgica. 27.
 930. London. R. College of Surgeons. 32.
 933. R. Med. and Chirurg. Soc. 32.
 987. Batavia. Geneeskundige Vereen. 34.

Medicine and Surgery. *See* Anatomy.

Mental Culture in general. *See* *also* Education.

223. Breslau. S. Ges. vaterländische Cultur
 10.

Meteorology.

143. Utrecht. K. Meteorologisch Instituut. 7.
 185. Berlin. Meteorologisches Inst. 9.
 689. Paris. Soc. Météorologique. 25.
 840. Edinburgh. Meteorological Soc. 29.
 914. London. Meteorological Soc. 31.

Meteorology and Magnetism. *See* Observatories.

Microscope.

291. **Giessen.** Ver. Microscopie. 12.
 915. **London.** Microscopical Society. 31.

Military Academies, Bureaus, and Schools. *See also Arms.*

182. **Berlin.** K. P. Generalstab der Armee. 8.
 183. " K. P. Kriegs-Akademie. 8.
 201. Vereinigte Artillerie und Ingenieur Schule. 9.
 416. **München.** K. Quartiermeister Stab. 16.
 669. **Paris.** Minist. de la Guerre. 24.
 967. **Woolwich.** Royal Military Acad. 33.
 1044. **Santiago.** Academia Militar. 36.

Mineralogy.

90. **St. Petersburg.** Kais R. Mineralogische Ges. 5.

Mineralogy and Geology. *See Geology.***Mineralogy and Zoology.**

461. **Regensburg.** Zoologisch-Mineralogischer Ver. 17.

Mines. *See Engineering, Mining.***Mining Engineering.** *See Engineering.***Ministry of Marine.** *See Marine.***Ministry of Public Instruction.**
*See Public Instruction.***Ministry of State.** *See State.***Ministry of War.** *See Military, etc.***Moral and Political Science.****Museums in general.**

20. **Bergen.** Bergensk Museum. 2.
 79. **Riga.** Museum. 4.
 261. **Dresden.** K. S. Kunst u. Wissenschaften. 11.
 359. **Klausenburg.** Erdélyi Muz. Egypt. 14.
 375. **Laibach.** Landes-Museum. 15.
 391. **Linz.** Museum Francisco-Carolinum. 15.
 393. **Lübeck.** Kunst- und Naturalien Cabinet. 15.
 394. **Lübeck.** Mus. Kunst und Natur. 15.
 437. **Pesth.** Magyar Nemzeti Museum. 17.

449. **Prag.** K. Böhmisches Museum. 17.
 466. **Salzburg.** V. Museum Carolino-Augustum. 18.
 493. **Trieste.** Civico Museo. 18.
 629. **Douai.** Muséum d'Histoire Naturelle. 23.
 725. **Firenze.** R. Museo Fisica e Storia Naturale. 26.
 952. **Norwich.** Norfolk and Norwich Mus. 32.
 960. **Plymouth.** Plymouth Museum. 33.
 978. **Cape Town.** South African Museum. 33.
 1015. **Melbourne.** National Museum. 35.
 1034. **Mexico.** Museo Nacional. 35.

Museums of Art (Fine Arts, etc.).

175. **Berlin.** Königl. Museen. 8.

Museums of Art and Industry.

860. **Kensington.** South Kensington Mus. 30.

Museums of History.

426. **Nürnberg.** Germanisches Museum. 16.

Museums of Natural History.

135. **Leiden.** R. Mus. Natuurlijke Gesch. 7.
 292. **Giessen.** Zoologisches Museum. 12.
 516. **Wien.** K. K. Naturalien Cabinet. 19.
 659. **Paris.** Jardin des Plantes. 24.
 698. **Reims.** Mus. d'Histoire Naturelle. 25.
 735. **Milano.** Museo C. di Storia Naturale. 26.
 736. " Mus. di Storia Nat. Villa. 26.
 780. **Torino.** R. Museo di Storia Naturale. 27.

Natural History in general.

36. **Kjöbenhavn.** Naturhistoriske Foren. 3.
 45. **Dorpat.** Dorpater Naturforscher-Ges. 3.
 64. **Moskwa.** Soc. Imp. Naturalistes. 4.
 80. **Riga.** Naturforschender Ver. 4.
 124. **Groningen.** G. Natuurkundig Wetenschappen. 6.
 158. **Altenburg.** Naturforschende Ges. 8.
 166. **Augsburg.** Naturhistor. Ver. 8.
 167. **Bamberg.** Naturforschende Ges. 8.
 177. **Berlin.** G. Naturforschender Freunde. 8.
 204. **Blankenburg.** Naturwissenschaftl. Ver. 9.
 207. **Bonn.** Naturhistorischer Ver. 9.
 228. **Bregenz.** Naturforschender Ver. 10.
 248. **Darmstadt.** Naturhistor. Ver. 11.
 241. **Danzig.** Naturforschende Ges. 10.
 250. **Deidesheim.** Pollichia: Naturwissenschaftl. Ver. 11.
 251. **Dessau.** Naturhistor. Ver. 11.
 255. **Dresden.** Gesellschaft "Isis." 11.
 264. **Elberfeld.** Naturwissenschaftl. Ver. 11.

268. **Emden.** Naturforschende Ges. 11.
 279. **Frankfurt-am-Main.** Senckenbergische naturforschende Ges. 12.
 283. **Freiburg.** Ges. Beförd. Naturwissenschaften. 12.
 293. **Görlitz.** Naturforschende Ges. 12.
 311. **Halle.** Naturforschende Ges. 13.
 312. Naturwissensch. Ver. 13.
 318. **Hamburg.** Naturwissenschaftl. Ver. 13.
 324. **Hanau.** W. Ges. gesammte Naturkunde. 13.
 327. **Hannover.** Naturhistor. Ges. 13.
 332. **Hermannstadt.** S. Ver. Naturwissenschaften. 13.
 354. **Kiel.** Ver. Verb. naturwissenschaftlicher Kennt. 14.
 358. **Klagenfurt.** Naturhistorisches Mus. 14.
 360. **Klausthal.** Naturwissensch. Ver. "Maja." 14.
 361. **Koblenz.** Naturhistorischer Ver. 14.
 362. **Koburg.** Ver. Naturkunde. 14.
 382. **Leipzig.** Naturforschende Ges. 15.
 396. **Ludwigshafen.** Vers. Rheinscher Naturforscher. 15.
 397. **Lüneburg.** Naturwissenschaftl. Ver. 15.
 399. **Luxembourg.** Soc. Sciences Naturelles. 15.
 401. **Mainz.** R. Naturforschende Ges. 15.
 403. **Mannheim.** Ver. Naturkunde. 15.
 404. **Marburg.** Ges. B. gesammten Naturwissenschaften. 16.
 409. **Meissen.** Naturwissenschaftliche Ges. "Isis." 16.
 422. **München.** Ver. für Naturkunde. 16.
 424. **Neu-Brandenburg.** Ver. Freunde der Naturgeschichte. 16.
 427. **Nürnberg.** Naturhistorische Ges. 16.
 428. **Offenbach.** Verein für Naturkunde. 16.
 431. **Passau.** Naturhistorischer Ver. 16.
 434. **Pesth.** Királyi Magyar Természettudományi Társulat. 17.
 453. **Prag.** Naturh. Ver. "Lotos." 17.
 457. **Pressburg.** Ver. für Naturkunde. 17.
 462. **Rostock.** Naturwissenschaftl. Inst. 17.
 463. M. Naturforschende Ges. 17.
 487. **Stuttgart.** Ver. Vaterl. Naturkunde. 18.
 529. **Wiesbaden.** Verein für Naturkunde. 20.
 538. V. Schweizerischer Naturf. 20.
 539. **Aarau.** A. Naturforschende Ges. 20.
 542. **Basel.** Naturforschende Ges. 20.
 544. **Bern.** A. S. Ges. gesammten Naturwissenschaften. 20.
 548. Naturforschende Ges. 20.
 551. **Chur.** Naturforschende Gesellschaft. 20.
 564. **Lausanne.** Soc. V. Scien. Naturelles. 21.
 566. **Neuchatel.** Soc. Scien. Naturelles. 21.
 567. **St. Gallen.** Naturwissenschaftl. Ges. 21.
 568. **Sion.** Soc. V. Sciences Naturelles. 21.
 569. **Solothurn.** Naturforschende Ges. 21.
 573. **Zürich.** Naturforschende Ges. 21.
 585. **Bruxelles.** Soc. R. Linnéenne. 21.
 590. **Liège.** Soc. Sciences Naturelles. 21.
 595. **Abbeville.** Soc. Linnéenne. 22.
 599. **Amiens.** Soc. Linnéenne. 22.
 614. **Amieaux.** Soc. Linnéenne. 22.
 619. **Caen.** Soc. Linnéenne. 22.
 625. **Cherbourg.** Soc. Imp. Sciences Naturelles. 23.
 636. **Lyon.** Soc. Linnéenne. 23.
 643. **Metz.** Soc. d'Histoire Naturelle. 23.
 699. **Reims.** Soc. Sciences Naturelles. 25.
 702. **Strasbourg.** Soc. Sciences Naturelles. 25.
 719. **Catania.** Ac. G. di Scienze Naturali. 26.
 744. **Milano.** Soc. Ital. di Scien. Naturali. 26.
 750. **Napoli.** Ac. Aspiranti Naturalisti. 27.
 754. R. Ist. d'Incor. alle Scienze Naturali. 27.
 809. **Berwick-on-Tweed.** Berwickshire Naturalists' Club. 28.
 818. **Cork.** Cuvierian Society. 29.
 871. **Liverpool.** L. Naturalist's Field Club. 30.
 878. **London.** An. Mag. Natural History. 30.
 908. Linnæan Society. 31.
 944. **Manchester.** M. Field Naturalists' Soc. 32.
 950. **Newcastle-on-Tyne.** Natural History Soc. N. D. N. 32.
 953. **Oxford.** Ashmolean Society. 32.
 983. **Mauritius.** Soc. d'Histoire Naturelle. 34.
 988. **Batavia.** Natuurkundige Vereen. in N. I. 34.
 1024. **Bogota.** Soc. de Naturalistas N. G. 35.
Natural History. See **Archæology; Medicine; Museums; Science in general.**
Natural History in general; Journals.
 209. **Bonn.** Red. W. Archivs f. Naturgesch. 9.
 714. **Boiogna.** Repertorium Italicum. 26.
 728. **Geneva.** Arch. per la Zool. l'Anat. e la Physiol. 26.
Natural Science. See **Natural History.**

Natural and Physical Science.

559. **Genève.** Soc. Physique et d'Histoire Naturelle. 21.
 612. **Bordeaux.** Soc. Sciences Physiques et Nat. 22.
 843. **Edinburgh.** Royal Physical Soc. 29.

Nautical Almanacs. See Naval Science.**Naval Affairs. See Marine.****Naval Physicians.**

40. **Astrakhan.** O. Morskikh Wratchei. 3.
 44. **Cronstadt.** O. Morskikh Wratchei. 3.
 66. **Nicolaievsk.** O. Morskikh Wratchei. 4.
 94. **St. Petersburg.** O. Morskikh Wratchei. 5.

Naval Science.

190. **Berlin.** Red. Nautisches Jahrbuch. 9.
 496. **Trieste.** K. K. Nautische Akademie. 19.
 918. **London.** Nautical Almanac Office. 31.

Numismatics.

919. **London.** Numismatic Society. 31.

Observatories in general, especially Astronomical.

6. **Lund.** Observatoriet. 1.
 11. **Stockholm.** Observatoriet. 1.
 18. **Upsala.** Univ. Observatoriet. 2.
 23. **Christiania.** Observatorium. 2.
 28. **Kjöbenhavn.** A. Observatorium. 2.
 43. **Cronstadt.** Mors. Observatorija. 3.
 47. **Dorpat.** K. Univ.-Sternwarte. 3.
 54. **Kasan.** Observatorium. 3.
 58. **Kiew.** Observatorium. 3.
 63. **Moskwa.** Observatorium. 4.
 74. **Pulkowa.** Observatoire. 4.
 104. **Vilna.** Observatoire. 5.
 107. **Warschau.** Observatoire. 5.
 134. **Leiden.** R. Observatorium. 7.
 144. **Utrecht.** Observatorium. 7.
 160. **Altona.** Sternwarte. 8.
 195. **Berlin.** Univ.-Sternwarte. 9.
 203. **Bilk** (bei Düsseldorf). Sternwarte. 9.
 205. **Bonn.** K. Sternwarte. 9.
 211. U. Sternwarte. 9.
 217. **Bremen.** Sternwarte. 10.
 226. **Breslau.** U.-Sternwarte. 10.
 242. **Danzig.** Sternwarte. 10.
 297. **Göttingen.** Sternwarte. 12.
 301. **Gotha.** Sternwarte. 12.

320. **Hamburg.** Sternwarte. 13.
 369. **Königsberg.** Sternwarte. 14.
 373. **Krakau.** Sternwarte. 15.
 374. **Kremsmünster.** Sternwarte. 15.
 387. **Leipzig.** U.-Sternwarte. 15.
 402. **Mannheim.** Sternwarte. 15.
 405. **Marburg.** Sternwarte. 16.
 421. **München.** Sternwarte. 16.
 436. **Pesth.** K. K. Sternwarte. 17.
 451. **Prag.** K. K. Sternwarte. 17.
 473. **Speier.** Sternwarte des K. Lyzeums. 18.
 519. **Wien.** K. K. Sternwarte. 19.
 549. **Bern.** Sternwarte. 20.
 554. **Genève.** Observatoire. 20.
 583. **Bruxelles.** Observatoire Royal. 21.
 640. **Marseilles.** Observatoire. 23.
 672. **Paris.** Observatoire Imp. 24.
 724. **Firenze.** Osservatorio. 26.
 729. **Geneva.** Osservatorio. 26.
 739. **Milano.** Osservatorio. 26.
 747. **Modena.** Osservatorio. 26.
 752. **Napoli.** Osservatorio. 27.
 758. **Padova.** Osservatorio. 27.
 760. **Palermo.** Osservatorio. 27.
 771. **Roma.** Osservatorio Astronomico. 27.
 777. **Torino.** Osservatorio. 27.
 792. **Lisboa.** Observatory. 28.
 800. **San Fernando.** Observat. Marino. 23.
 801. **Aberdeen.** Observatory. 28.
 803. **Armagh.** Observatory. 28.
 814. **Cambridge.** Cambridge Observatory. 28.
 828. **Dublin.** Observatory. 29.
 832. **Durham.** Observatory. 29.
 842. **Edinburgh.** Royal Observatory. 29.
 857. **Greenwich.** Royal Observatory. 30.
 873. **Liverpool.** Observatory. 30.
 882. **London.** Bishop's Observatory. 30.
 925. Redhill Observatory. 32.
 946. **Markree.** Observatory. 32.
 957. **Oxford.** Radcliffe Observatory. 32.
 970. **Athens.** Observatory. 33.
 977. **Cape Town.** Royal Observatory. 33.
 1003. **Madras.** Observatory. 34.
 1019. **Sydney.** Observatory. 35.
 1027. **Georgetown.** Observatory. 35.
 1041. **Rio Janeiro.** Nautical Observatory. 36.
 1048. **Santiago.** Observatorio Nacional. 36.

Observatories, Astronomical. See Observatories.**Observatories, Magnetical and Meteorological.**

50. **Helsingfors.** Magnet. meteorol. Obser. 3.

97. **St. Petersburg.** T. fisitcheskaja Observatoria. 5.
 100. **Tiflis.** Obs. Magnétique Météorolog. 5.
 507. **Wien.** K. K. C. Meteorologie u. Erd-Magnetism. 19.

862. **Kew.** Observatory. 30.
 993. **Bombay.** Magnet. and Meteor. Obs. 34.
 1008. **Hobarton.** Magnet. Meteorol. Obs. 34.

Observatories, Physical. *See* **Observatories, Magn. and Met.**

Oriental Literature and Science.

98. **St. Petersburg.** Vostotchnoi Institut. 5.
 378. **Leipzig.** D. Morgenländische Ges. 15.
 518. **Wien.** K. K. Orientalische Akad. 19.
 665. **Paris.** É. I. S. Langues orientales vivantes. 24.
 675. Société Asiatique. 24.
 691. Soc. Orientale. 25.
 927. **London.** R. Asiatic Society. 32.
 939. Syro-Egyptian Soc. 32.
 975. **Constantinople.** Société Orientale. 33.
 981. **Grand Cairo.** The Egyptian Soc. 33.

Ornithology.

149. **Deutsche Ornithologen-Ges.** 7.
 843. **Kassel.** Red. Journs. f. Ornithologie. 14.
 901. **London.** The Ibis. 31.

Palæontology.

582. **Bruxelles.** Soc. Palæontologique. 21.
 920. **London.** Palæontographical Soc. 31.

Patents. *See also* **Technology.**

662. **Paris.** Cons. des Arts et Métiers. 24.
 897. **London.** G. Seal Patent Office. 31.

Pharmacy.

12. **Stockholm.** Pharmaceutiska Inst. 1.
 89. **St. Petersburg.** Kais. pharmaceutische Ges. 5.
 148. **Deutsche Apotheker-Verein.** 7.
 202. **Bernburg.** Apotheker-Verein. 9.
 330. **Heidelberg.** S. Apotheker Ver. 13.
 459. **Regensburg.** K. B. Apotheker Vere. 17.
 576. **Anvers.** Soc. de Pharmacie. 21.
 682. **Paris.** Société de Pharmacie. 24.
 921. **London.** Pharmaceutical Soc. 31.

Philology. *See also* **Antiquities; History.**

922. **London.** Philological Society. 32.

Philosophy, Experimental. *See* **Physical Science.**

Photography.

923. **London.** Photographic Society. 32.

Physicians. *See* **Naval Physicians.**

Physical Science. *See also* **Natural Science.**

139. **Rotterdam.** Gen. Proefondervindelijke Wijsbegeerte. 7.
 186. **Berlin.** Physikalische Ges. 9.
 278. **Frankfurt-am-Main.** Physikalischer Ver. 12.

Physical Observatories. *See* **Observatories.**

Physics. *See* **Economy; Medicine; Physical Science; Science.**

Political Science. *See* **Moral Science.**

Polytechnics. *See* **Technology.**

Pomology. *See* **Agriculture; Horticulture.**

Popular Industry. *See* **Industry.**

128. **Haarlem.** Teyler's Genootschap. 6.
 146. **Zwolle.** Overys. Vereeniging. 7.

Poultry.

295. **Görlitz.** Ver. Hühnerzucht. 12.

Printing. *See* **Booksellers.**

Prisons.

488. **Stuttgart.** Ver. für entlassene Strafgefangene. 18.

Provincial Welfare.

Psychology.

168. **Bendorf.** Ges. Psychiatrie und gerichtliche Psychologie. 8.

Public Instruction, Ministry of.

91. **St. Petersburg.** Ministerstvo narodnago prosvestchenija. 5.
 671. **Paris.** Minist. de l'Instruction Publique. 24.
 1047. **Santiago.** Minis. Instruccion Publico. 36.

Quartermaster Corps. *See Military.*

Railroads.

198. **Berlin.** Ver. Eisenbahnkunde. 9.
486. **Stuttgart.** Ver. D. Eisenbahn-Verwaltungen. 18.

Rural Economy. *See Agriculture.*

Schools (Academies, including Gymnasias). *See Universities.*

Schools.

306. **Grätz.** S.-S. Joanneum. 12.
317. **Hamburg.** Johanneum. 13.
435. **Pesth.** K. K. Obergymnasium. 17.
517. **Wien.** K. K. Ober-Gymnasium. 19.
547. **Bern.** Kanton-Schule. 20.
705. **Toulon.** Académie Navale. 25.

Science in general (including Academies, Associations, and Societies of widest scope).

3. **Skand.** Naturforskeres Forsaml. 1.
4. **Götheborg.** K. Vetenskaps Vitterhets-S. 1.
7. **Lund.** Physiographiske Foren. 1.
9. **Stockholm.** K. Vetenskaps-Akad. 1.
17. **Upsala.** K. Vetenskaps-Soc. 2.
24. **Christiania.** Videnskabs Selsk. 2.
25. **Trondhjem.** K. N. Videnskabernes-Selsk. 2.
33. **Kjöbenhavn.** K. D. Videnskabernes-Selsk. 3.
46. **Dorpat.** Gelehrte Esthnische Ges. 3.
51. **Helsingfors.** Soc. Scientiar. Fennica. 3.
83. **St. Petersburg.** I. Akademija Nauk. 5.
108. **Amsterdam.** K. Akad. Wetenschappen. 6.
126. **Haarlem.** H. Maatschappij Wetenschappen. 6.
129. **Hertogenbosch.** P. G. Kunsten en Wetenschappen. 7.
137. **Middelburg.** Gen. der Wetenschappen. 7.
145. **Utrecht.** P. U. G. Kunsten en Wetenschappen. 7.
152. **Versamml.** Naturforscher und Aerzte. 8.
181. **Berlin.** K. P. Ak. Wissenschaften. 8.
233. **Buda.** Magyar Tudományos Akad. 10.
271. **Erfurt.** Akad. Gemeinnütz. Wissenschaften. 11.
294. **Görlitz.** O. Ges. Wissenschaften. 12.
296. **Göttingen.** K. Ges. Wissenschaften. 12.
335. **Innsbruck.** Ferdinandeum. 13.
339. **Jena.** K. L. C. Deutsche Akademie. 13.
371. **Krakau.** C. K. Towarzystwo Naukowe Krak. 15.
380. **Leipzig.** F. Jablonowski'sche Ges. 15.
381. K. S. Ges. Wissenschaften. 15.
413. **München.** K. B. Akad. Wissensch. 16.
425. **Nordhausen.** Wissensch. Verein. 16.
438. **Pesth.** Magyar Tudós Társaság. 17.
448. **Prag.** K. B. Ges. Wissenschaften. 17.
499. **Vicenza.** Accademia Olimpica. 19.
506. **Wien.** K. Akad. Wissenschaften. 19.
553. **Genève.** Institut National Genevois. 20.
577. **Anvers.** Soc. R. des Sciences. 21.
578. **Bruxelles.** Acad. R. Sciences, Lettres, Beaux-Arts. 21.
589. **Liège.** Société Royale des Sciences. 21.
592. **Mons.** Soc. Sciences, Arts, Lettres. 21.
593. **Inst. des Provinces de France.** 22.
594. **Congrès Scientifique de France.** 22.
596. **Abbeville.** Soc. Imp. d'Emulation. 22.
597. **Aix.** Acad. Sciences, Agriculture, Arts, Belles-Lettres. 22.
600. **Angers.** Soc. d'Agric., Sciences, Arts. 22.
601. Soc. Académique. 22.
603. **Arcueil.** Société d'Arcueil. 22.
604. **Arras.** Société d'Arras. 22.
605. **Bayeux.** Soc. d'Agricul., Sciences, Arts, Belles-Lettres. 22.
606. **Beauvais.** Soc. d'Archéologie, Sciences, Arts. 22.
607. **Besançon.** A. Sciences, Belles-Lettres et Arts. 22.
609. **Bordeaux.** Acad. I. Sciences, Belles-Lettres et Arts. 22.
613. Soc. Philomathique. 22.
616. **Caen.** Acad. Sciences, Arts et Belles-Lettres. 22.
621. **Chambéry.** Soc. Imp. Académique. 22.
622. Acad. Impériale. 22.
623. **Châlons-sur-Marne.** Soc. d'Agricul., Commerce et Sciences. 23.
624. **Cherbourg.** Soc. Académique. 23.
626. **Clermont-Ferrand.** Acad. Sciences, Belles-Lettres et Arts. 23.
627. **Dijon.** Acad. Sciences, Arts et Belles-Lettres. 23.
630. **Dunkerque.** Soc. D. Encour. des Sciences. 23.
631. **Evreux.** Soc. L. d'Agriculture, Sciences, Arts, Belles-Lettres. 23.
632. **Le Mans.** Soc. d'Agriculture, Science et Arts. 23.
633. **Lille.** Soc. I. Sciences, Agric., Arts. 23.

634. **Lyon.** Soc. I. Agriculture, Histoire Naturelle et Arts Utiles. 23.
635. Acad. Sciences, Belles-Lettres et Arts. 23.
638. **Mâcon.** Acad. de Mâcon. 23.
639. **Marseilles.** Acad. Sciences, Lettres et Arts. 23.
641. **Mende.** Soc. d'Agriculture, Industrie, Sciences et Arts. 23.
642. **Metz.** Acad. Impériale de Metz. 23.
646. **Montpellier.** Acad. Sciences et Lettres. 23.
650. **Nancy.** Académie de Stanislas. 24.
651. **Nîmes.** Académie du Gard. 24.
652. **Orleans.** Soc. Sciences, Belles-Lettres et Arts. 24.
667. **Paris.** Institut de France. 24.
692. Soc. Philomatique. 25.
694. Soc. Secours des Amis des Sciences. 25.
696. **Puy.** Soc. Agric., Sciences, Arts, Commerce. 25.
697. **Reims.** Académie de Reims. 25.
700. **Rouen.** Acad. Sciences, Belles-Lettres, Arts. 25.
701. **Saint-Quentin.** Soc. A. Sciences, Arts, Belles-Lettres, et Agric. 25.
703. **Strasbourg.** Soc. Sciences, Agric., Arts. 25.
704. **Tarbes.** Soc. Acad. des Hautes-Pyrénées. 25.
706. **Toulouse.** A. Sciences, Inscriptions et Belles-Lettres. 25.
708. **Tours.** Soc. Agriculture, Sciences, Arts, Belles-Lettres. 25.
709. **Troyes.** Soc. Agriculture, Sciences, Arts et Belles-Lettres. 25.
710. **Arezzo.** Ac. di Scienze, Lettere ed Arti. 25.
712. **Bologna.** Ac. delle Scienze. 26.
718. **Brescia.** Ateneo. 26.
720. **Firenze.** Ac. del Cimento. 26.
726. **Genova.** Ac. Scienze, Lettere ed Arti. 26.
731. **Lucca.** R. Ac. Lu. Scienze, Lettere ed Arti. 26.
733. **Milano.** At. di Scienze, Lettere ed Arti. 26.
741. R. Ist. n. di Scienze, Lettere ed Arti. 26.
745. Soc. pat. d'Incora. di Scienze, Lettere ed Arti. 26.
746. **Modena.** Acc. di Scienze, Lettere ed Arti. 26.
748. Soc. Ital. delle Scienze. 26.
749. **Modigliana.** Acc. Scientifico-letteraria. 27.
753. **Napoli.** R. Acc. Scienze e Belle Lettere. 27.
757. **Padova.** I. R. Acc. di Scienze, Lettere ed Arti. 27.
759. **Palermo.** Acc. Pal. di Scienze e Lettere. 27.
763. **Pisa.** Acc. Valdarnese. 27.
765. **Ravenna.** Società Ravennate. 27.
766. **Roma.** Acc. Pontificia Nuovi Lincei. 27.
770. Correspond. Scientifica. 27.
772. **Siena.** Acc. delle Scienze. 27.
774. **Torino.** Acc. Reale delle Scienze. 27.
784. **Venezia.** Ateneo Veneto. 27.
786. I. R. Ist. di Scienze, Lettere ed Arti. 28.
790. **Lisboa.** Acad. Real das Sciencias. 28.
796. **Madrid.** R. Ac. de Ciencias. 28.
802. **Aberdeen.** Philosophical Society. 28.
805. **Belfast.** Belfast Institution. 28.
808. Nat. Hist. and Philos. Soc. 28.
810. **Bristol.** B. Inst. for the Adv. of Science, Literat. and Fine Arts. 28.
820. **Cork.** Royal Cork Institution. 29.
823. **Dublin.** D. Univ. Philosophical Soc. 29.
829. Royal Dublin Soc. 29.
830. Royal Irish Academy. 29.
836. **Edinburgh.** Ed. New Philos. Journ. 29.
845. Royal Society. 29.
853. **Glasgow.** Andersonian Institute. 30.
854. Philosophical Society. 30.
858. **Hull.** Royal Institution. 30.
859. **Isle of Wight.** Philos. and Scientific Soc. 30.
865. **Leeds.** L. Philos. Literary Soc. 30.
866. **Leicester.** L. Lit. and Philos. Soc. 30.
870. **Liverpool.** Literary and Philos. Soc. 30.
874. Royal Institution. 30.
886. **London.** B. As. for Advancement of Science. 31.
910. Lond. Ed. Dub. Philosophical Mag. 31.
932. R. Institution of G. B. 32.
935. Royal Society. 32.
942. **Manchester.** Lit. and Philos. Soc. 32.
948. **Newcastle-upon-Tyne.** Lit. and Philos. Soc. 32.
958. **Peebles.** Chambers Institution. 33.
968. **Woolwich.** Royal Artillery Inst. 33.
969. **York.** York Philosophical Soc. 33.
986. **Batavia.** B. Gen. Kunsten en Wetenschappen. 34.
994. **Bombay.** Royal Asiatic Society. 34.

995. **Calcutta.** Asiatic Society. 34.
 999 **Ceylon.** Asiatic Society. 34.
 1001. **Hong Kong.** Asiatic Soc. China. 34.
 1007. **Shanghai.** R. Asiatic Soc. China. 34.
 1011. **Hobarton.** Royal Soc. of Tasmania. 35.
 1014. **Launceston.** Royal Soc. (branch). 35.
 1016. **Melbourne.** Philosophical Soc. 35.
 1020. **Sydney.** Philosophical Soc. 35.

Science, Moral and Political. *See* **Moral.**

Science, Natural. *See* **Natural.**

Science, Physical. *See* **Physical.**

Science, Social. *See* **Social.**

Scientific Associations. *See* **Science.**

Sheep.

454. **Prag.** Schafzüchter-Verein. 17.

Silkworm.

446. **Potsdam.** Ver. Beförd. Seidenbaues. 17.
 647. **Montpellier.** Soc. G. d'Encour. à la Sericulture. 23.

Smithsonian Agents. *See* **Agents.**

Social Science.

917. **London.** Nat. Ass. Promotion of Social Science. 31.

State Governments. *See* **Crowned Heads.**

State, Ministry of.

417. **München.** K. Staats-Ministerium. 16.
 485. **Stuttgart.** K. Staats Archiv. 18.

Statistics. *See also* **Geography.**

96. **St. Petersburg.** Statistitsheskii Tsentralnii Komitet. 5.
 191. **Berlin.** Red. Statist. Central-Archiv. 9.
 192. Statistisches Bureau. 9.
 197. Ver. deutsche Statistik. 9.
 263. **Dresden.** Statistisches Bur. 11.
 328. **Hannover.** Statistisches Bureau. 13.
 467. **Schwerin.** G. Statistisches Bureau. 18.
 508. **Wien.** K. K. Dir. Administrativen Statistik. 19.
 546. **Bern.** E. Statistisches Bureau. 20.
 684. **Paris.** Soc. F. Statistique Universelle. 24.
 901. **London.** Inst. Actuaries. 31.
 938. Statistical Society. 32.

Statistics, and Topography.

484. **Stuttgart.** K. Statistisch-topographisches Bur. 18.

Stenography.

193. **Berlin.** Stenographischer Ver. 9.

Surgery. *See* **Medicine.**

Technology and Polytechny.

117. **Delft.** Bureau Technologique. 6.
 187. **Berlin.** Polytechnische Ges. 9.
 383. **Leipzig.** Polytechnische Ges. 15.
 420. **München.** Polytechnischer Ver. 16.
 523. **Wien.** Polytechnische Ges. 19.
 534. **Würzburg.** Polytechnischer Ver. 20.
 555. **Gèneve.** Société des Arts. 20.
 571. **Zürich.** École Polytechnique Féd. 21.
 666. **Paris.** École Polytechnique. 24.
 693. Soc. Polytechnique. 25.
 734. **Milano.** Istituto Tecnico. 26.
 742. Soc. d'Incoragg. d'Arti e Mestieri. 26.
 844. **Edinburgh.** R. Scottish Soc. of Arts. 29.
 851. **Falmouth.** R. Cornwall Polytechnic Soc. 30.
 872. **Liverpool.** L. Polytechnic Soc. 30.
 891. **London.** Dep. Practical Art. 31.
 913. London Mechanics' Inst. 31.
 937. Soc. Arts, Man. and Commerce. 32.
 991. **Bombay.** Bombay Mechanics' Inst. 34.
 1009. **Hobarton.** Mechanics' Institute. 34.
 1013. **Launceston.** Mechanics' Institute and School of Arts. 35.
 1031. **Kingston.** R. Soc. of Arts of Jamaica. 35.

Thermal Waters. *See* **Baths.**

Topography. *See* **Statistics.**

Trade. *See* **Industry.**

Trade, Free. *See* **Free Trade.**

Universities (including Academies, etc.) *See also* **Schools.**

5. **Lund.** K. Universitetet. 1.
 16. **Upsala.** K. Universitetet. 2.
 22. **Christiania.** K. N. Universitetet. 2.
 48. **Dorpat.** Universität. 3.
 52. **Helsingfors.** Universität. 3.
 53. **Kasan.** Kazanskii Universitet. 3.
 55. **Kharkow.** Universität. 3.
 57. **Kiew.** Imp. Universitet. 3.
 60. **Moskwa.** I. Universitet. 4.

87. **St. Petersburg.** I. St. Peterburgskii Universitet. 5.
123. **Groningen.** Academia Groningana. 6.
132. **Leiden.** Academia Lugduno-Batava. 7.
140. **Utrecht.** Acad. Rheno-Trajectina. 7.
194. **Berlin.** Universität. 9.
210. **Bonn.** Universität. 9.
225. **Breslau.** Universität. 10.
273. **Erlangen.** Universität. 11.
284. **Freiburg.** Universität. 12.
290. **Giessen.** Universität. 12.
298. **Göttingen.** Universität. 12.
308. **Greifswald.** Universität. 12.
314. **Halle.** Universität. 13.
331. **Heidelberg.** Universität. 13.
337. **Innsbruck.** Universität. 13.
353. **Kiel.** Universität. 14.
370. **Königsberg.** Universität. 14.
372. **Krakau.** Uniwersytet. 15.
386. **Leipzig.** Universität. 15.
406. **Marburg.** Universität. 16.
418. **München.** K. Universität. 16.
440. **Pesth.** Universität. 17.
455. **Prag.** Universität. 17.
464. **Rostock.** Universität. 17.
498. **Tübingen.** Universität. 19.
526. **Wien.** Universität. 19.
535. **Würzburg.** Universität. 20.
543. **Basel.** Universität. 20.
550. **Bern.** Universität. 20.
574. **Zürich.** Universität. 21.
587. **Gand.** Université. 21.
591. **Louvain.** Université. 21.
730. **Genova.** Università. 26.
764. **Pisa.** Università. 27.
773. **Siena.** Università (Osservatorio). 27.
781. **Torino.** Regia Università. 27.
787. **Venezia.** Mechitaristen-Collegium. 28.
789. **Coimbra.** University. 28.
807. **Belfast.** Queen's College. 28.
816. **Cambridge.** University. 29.
819. **Cork.** Queen's College. 29.
821. **Dublin.** Catholic College. 29.
827. **Trinity College.** 29.
849. **Edinburgh.** University. 29.
850. **Eton.** Eton College. 29.
852. **Galway.** Queen's College. 30.
855. **Glasgow.** University. 30.
940. **London.** University College. 32.
947. **Maynooth.** College Library. 32.
954. **Oxford.** Bodleian Library. 32.
962. **St. Andrews.** University. 33.
965. **Stonyhurst.** Stonyhurst College. 33.
971. **Athens.** University Library. 33.
985. **Allahabad.** Mission College. 34.
1000. **Ceylon.** Batticotta Seminary. 34.
1006. **Rourkee.** Thomason College. 34.
1017. **Melbourne.** Univ. of Melbourne. 35.
1021. **Sydney.** University of Sydney. 35.
1026. **Chquisaca.** University. 35.
1030. **Habana.** Real Universidad. 35.
1032. **Lima.** Universidad. 35.
1049. **Santiago.** Universidad. 36.
- Universities, Journals of.**
2. **Scandinavia.** Nord. Univ. Tidsskrift. 1.
- Universities, Libraries of. See Universities.**
- Universities, Museums of. See Museums.**
- Universities, Observatories of. See Observatories.**
- Useful Knowledge. See Industry.**
- Utility. See Amusement.**
- Veterinary Science.**
38. **Kjöbenhavn.** Tidsskrift for Veterinær. 3.
39. **Veterinær-Selskab.** 3.
- Vine. See Wine.**
- War, Ministry of.**
669. **Paris.** Minist. de la Guerre. 24.
- Watchmaking.**
565. **Lausanne.** Soc. Industrielle d'Horlogerie. 21.
- Welfare, Provincial. See Provincial.**
- Wine Culture.**
478. **Stuttgart.** Ges. Weinverbesserung. 18.
- Zoology. See also Botany; Mineralogy.**
109. **Amsterdam.** K. Zoologisch G. "Natura Artis Magistra." 6.
281. **Frankfurt-am-Main.** Zoologische Ges. 12.
728. **Genova.** Arch. per la Zool., l'Anat. e la Phys. 26.
831. **Dublin.** Royal Zoological Soc. 29.
941. **London.** Zoological Society. 32.







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